

工商管理专业培养方案

Undergraduate Program in Business Management

一、专业简介（Major Introduction）

工商管理专业紧扣现代市场经济发展与国家资源战略需求，秉持“厚基础、重实践、强创新”的育人理念，着力培养德、智、体、美、劳全面发展，兼具人文底蕴、科学精神与职业操守的应用型、创新型、复合型管理人才。本专业以管理学、经济学为根基，系统传授现代企业管理核心理论与方法，强化数智化工具、人工智能技术的应用训练，聚焦战略规划、运营管理、人力资源管理、市场营销、财务管理、智慧物流、矿产资源项目技术经济评价、企业风险管理、矿业公司治理、企业文化与伦理等核心领域，构建专业知识与实操能力深度融合的培养体系。专业突出资源型企业管理办学特色，嵌入ESG前沿理念与全球矿业治理议题，依托实践教学、经营管理决策模拟、专业实习、毕业论文等全链条实践环节，培育学生批判性思维、创新创业能力与跨主体协同素养。毕业生可在工商企业（尤以资源型企业为特色）及相关机构从事管理实务、理论与教学工作，具备适配时代管理变革与数智化发展的核心竞争力。

二、专业培养目标（Academic Objectives）

工商管理专业立足现代市场经济与国家资源战略，坚守“厚基础、重实践、强创新”的教育理念，培养德、智、体、美、劳全面发展，拥有人文底蕴、科学精神与职业操守，系统掌握现代经济管理理论与方法，兼具国际化视野与本土实践能力，具备创新思维、团队协作、沟通表达与时代适配力的应用型、创新型、复合型专业管理人才。毕业生能够在工商企业（重点面向资源型企业）开展战略规划、运营管理等管理实务工作，亦可在相关领域从事理论与教学工作；通过行业实践积累，可胜任工商企业管理问题的研究与实践工作，精准契合资源行业数智化转型与高质量发展需求。

三、毕业要求（Academic Requirement）

本专业学生主要学习管理学、经济学和工商管理的基本理论与基本知识，掌握我校特色矿产行业基础知识，接受工商管理方法与技巧及数智化技术应用的系统训练，具备分析和解决管理问题、运用数智化工具的核心能力，熟知资源型企业管理需求。专业以知识获取、知识应用、创新创业三大维度构建能力体系，具体毕业要求如下：

（1）知识获取维度：系统掌握管理学、经济学基本原理与现代企业管理理论知识，把握数智化管理发展趋势；掌握文献检索、资料查询等专业科研方法，持续跟踪管理理论前沿与资源型企业管理变革，夯实理论与信息获取基础。

（2）知识应用维度：熟练运用企业管理定性定量分析方法、AI应用工具及数智化技能，精通运营管理、市场营销、财务管理、人力资源管理、矿产资源管理等专业技术；熟悉资源型企业管理特征、运营规则与数智化转型路径，具备ESG前沿视野与全球矿业治理认知，拥有较强的人际沟通、语言文字表达与管理实务操作能力。

（3）创新创业维度：践行社会主义核心价值观，具备优良道德品质、身心素养、社会责任感与职业道德；拥有批判性思维与AI赋能下的创新实践能力，主动参与实践实训、科技创新、数智化应用及自主创业活动，培育跨主体协同与创新创业综合素养。

四、主干学科（Main disciplines）

管理学。

五、学制与学位（Length of Schooling and Degree）

学制四年。学生修满所规定的最低毕业学分，达到培养目标规定的各项要求后，授予管理学学士学位。

六、核心课程（Core Courses）

专业核心课程：组织行为学、财务管理学、市场营销学、战略管理、创业管理、人力资源管理、运营管理、智慧物流、矿产资源项目技术经济评价、企业风险管理、矿业公司治理、企业文化与伦理。

实践课程：军事技能训练、教学实习、专业实习、经营管理决策模拟、思想政治社会实践、毕业论文等。

Undergraduate Program in Business Management

I. Major Introduction

Grounded in the development of the modern market economy and national resource strategies, the Business Administration major adheres to the educational philosophy of solid foundation, emphasis on practice, and strong innovation. It aims to cultivate applied, innovative, and interdisciplinary management talents who are well-rounded in moral, intellectual, physical, aesthetic and labor development, with humanistic heritage, scientific spirit and professional ethics. Rooted in management and economics, this major systematically imparts core theories and methods of modern enterprise management, strengthens the application training of digital intelligence tools and artificial intelligence technologies, and focuses on core fields including strategic planning, operations management, human resource management, marketing, financial management, smart logistics, technical and economic evaluation of mineral resource projects, enterprise risk management, mining corporate governance, corporate culture and ethics, so as to build a training system that deeply integrates professional knowledge and practical capabilities. Highlighting the school-running feature of resource-based enterprise management, the major integrates cutting-edge ESG concepts and global mining governance issues, and cultivates students' critical thinking, innovation and entrepreneurship capabilities, and cross-subject collaboration literacy through a full-chain practical system including practical teaching, management decision simulation, professional internship and graduation thesis. Graduates can engage in management practice, theoretical research and teaching in industrial and commercial enterprises (especially resource-based enterprises) and relevant institutions, with core competitiveness to adapt to the era of management reform and digital-intelligent development.

II. Academic Objectives

Based on the modern market economy and national resource strategies, the Business Administration major upholds the educational philosophy of solid foundation, emphasis on practice, and strong innovation. It cultivates applied, innovative and interdisciplinary professional management talents who are well-rounded in moral, intellectual, physical, aesthetic and labor development, with humanistic heritage, scientific spirit and professional ethics. Graduates systematically master modern economic management theories and methods, possess international vision and local practical capabilities, and have innovative thinking, teamwork, communication skills and adaptability to the times. They can carry out practical management work such as strategic planning and operations management in industrial and commercial enterprises (focusing on resource-based enterprises), or engage in theoretical research and teaching in related fields. Through the accumulation of industry practice, they can be competent in the research and practice of business management issues, and precisely meet the needs of digital-intelligent transformation and high-quality development of the resource industry.

III. Academic Requirements

Students of this major mainly study the basic theories and knowledge of management, economics and business administration, master the basic knowledge of the mining industry with the characteristics of our university, receive systematic training in business administration methods, skills and digital-intelligent technology application, equip with the core abilities to analyze and solve management problems and use digital-intelligent tools, and are familiar with the management needs of resource-based enterprises. The major constructs a competency system based on the three dimensions of **knowledge acquisition, knowledge application, innovation and entrepreneurship**, with specific graduation requirements as follows:

(1) **Knowledge Acquisition:** Systematically master the basic principles of management and economics, as well as the theoretical knowledge of modern enterprise management, and grasp the development trend of digital-intelligent management; Master professional research methods such as literature retrieval and data query, continuously track the frontier of management theories and the

management reform of resource-based enterprises, and consolidate the foundation of theoretical and information acquisition.

(2) **Knowledge Application:** Skilled in applying qualitative and quantitative analysis methods, AI application tools and digital-intelligent skills for enterprise management, and proficient in professional technologies such as operations management, marketing, financial management, human resource management and mineral resource management; Familiar with the management characteristics, operation rules and digital-intelligent transformation paths of resource-based enterprises, equipped with cutting-edge ESG vision and cognition of global mining governance, and possess efficient interpersonal communication, language and written expression, and practical management operation capabilities.

(3) **Innovation and Entrepreneurship:** Practice the core socialist values, and possess excellent moral character, physical and mental literacy, social responsibility and professional ethics; Equipped with critical thinking and AI-enabled innovative practice capabilities, take the initiative to participate in practical training, scientific and technological innovation, digital-intelligent application and independent entrepreneurship activities, and cultivate comprehensive literacy of cross-subject collaboration, innovation and entrepreneurship.

IV. Main Disciplines

Management.

V. Length of Schooling and Degree

The length of schooling is four years. Students who have completed the minimum required graduation credits and met all the requirements specified in the academic objectives will be conferred the Bachelor of Management degree.

VI. Core Courses

Specialized Core Courses: Organizational Behavior, Financial Management, Marketing, Strategic Management, Entrepreneurship Management, Human Resource Management, Operations Management, Smart Logistics, Technical and Economic Evaluation of Mineral Resource Projects, Enterprise Risk Management, Mineral Corporate Governance, Corporate Culture and Ethics.

Practical Courses: Military Training, Teaching Practice, Professional Practice, Management Decision Simulation, Ideological and Political Social Practice, Graduation Thesis, etc.

七、课程先修逻辑关系图(Course Prerequisite Logic Relationship Diagram)

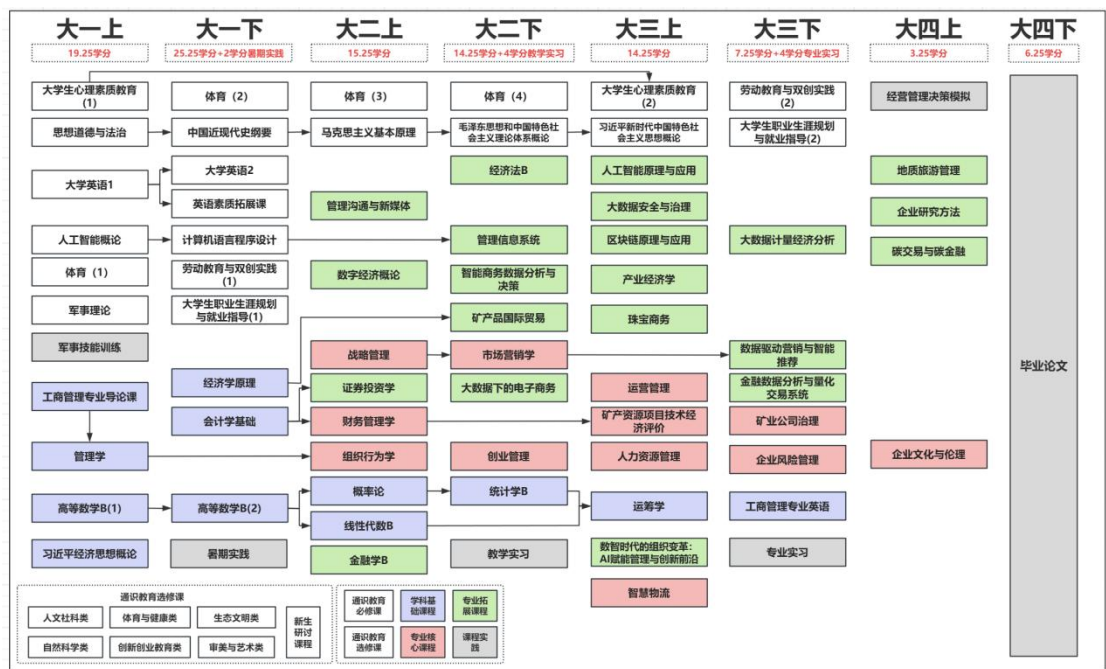


图1 工商管理专业课程逻辑关系
Figure1 Logical Relationship of Courses in Business Management Major

八、最低毕业总学分要求及学分分配 (Minimum Required Credits and Distribution)

课程模块 Course Module	课程类别 Course Classification	学时数 Hours	学分 Credits	学 期 Semester										
				1	2	1 夏	3	4	2 夏	5	6	3 夏	7	8
通识教育 Liberal Education	通识教育必修课程 Required Courses of General Education	746	42	13.25	14.25		4.25	4.25		3.25	1.25	1	0.25	0.25
	通识教育选修课程 Selective Courses of General Education	160	10											
专业教育 Professional Education	学科基础课程 Disciplinary Fundamental Courses	528	33	11	10		4	3		4	1			
	专业核心课程 Specialized Core Courses	448	28				7	5		11	3		2	
	专业拓展课程 Specialized Development Courses	176	11				10	8		11	6		3	
实践教育 Practical Education	课程实践 Course Practice	24 周 +56 学 时	19	2		2			4			4	1	6
	课外实践 Extracurricular Practice	96	6											
必修课总学分 Required Course Credits				122										
选修课总学分 Elective Course Credits				27										
最低毕业总学分 Total Credits				149										

九、课程设置 (Curriculum)

1、通识教育必修课程 (Required Courses of General Education)：746 学时 (746 Hours)，42 学分 (42 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
GR041002	计算机语言程序设计 Computer Language Programming	64	4	32	32		考试 Exam	2	
GR041011	人工智能概论 Introduction of Artificial Intelligence	32	2	16	16		考试 Exam	1	
GR081067	大学英语素质拓展课 Competence-oriented Education for College English	32	2				考试 Exam	2	
GR081071	大学英语(1) College English(1)	64	4	64			考试 Exam	1	
GR081072	大学英语(2) College English(2)	32	2				考试 Exam	2	
GR141005	体育(1)(系列课程) Physical Education(1)	32	1				考试 Exam	1	
GR141006	体育(2)(系列课程) Physical Education(2)	32	1				考试 Exam	2	
GR142007	体育(3)(系列课程) Physical Education(3)	32	1				考试 Exam	3	
GR142008	体育(4)(系列课程) Physical Education(4)	32	1				考试 Exam	4	
GR181008	中国近现代史纲要 Essentials of Modern Chinese History	48	3	48			考试 Exam	2	
GR181009	思想道德与法治 Ideological morality and rule of law	48	3				考试 Exam	1	
GR181013	形势与政策(1) Situation and Policy Education(1)	4	0.25	4			考查 Term Paper	1	
GR181014	形势与政策(2) Situation and Policy(2)	4	0.25				考查 Term Paper	2	
GR181015	形势与政策(3) Situation and Policy(3)	4	0.25				考查 Term Paper	3	
GR181016	形势与政策(4)	4	0.25				考查	4	

	Situation and Policy(4)						Term Paper		
GR181017	形势与政策(5) Situation and Policy(5)	4	0.25				考查 Term Paper	5	
GR181018	形势与政策(6) Situation and Policy(6)	4	0.25				考查 Term Paper	6	
GR181019	形势与政策(7) Situation and Policy(7)	4	0.25				考查 Term Paper	7	
GR181020	形势与政策(8) Situation and Policy(8)	4	0.25				考查 Term Paper	8	
GR182014	马克思主义基本原理 The Fundamental Principles of Marxism	48	3				考试 Exam	3	
GR182022	习近平新时代中国特色社会主义思想概论 An Introduction to Xi Jinping Thought on Socialism with Chinese	48	3				考试 Exam	5	
GR182024	毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thoughts and Theoretical System of the Chinese Characteristic Socialism	32	2	32			考试 Exam	4	
GR301004	大学生职业生涯规划与就业指导(1) Career Planning and Employment Guidance for University Students(1)	20	1	16	4		考试 Exam	2	
GR301005	大学生心理素质教育(1) Mental Health(1)	16	1	16			考查 Term Paper	1	
GR301024	劳动教育与双创实践(1) Labor Education and Innovation and Entrepreneurship Practice(1)	16	1	16			考查 Term Paper	2	
GR303005	大学生职业生涯规划与就业指导(2) Career Planning and Employment Guidance for University Students(2)	18	1	12	6		考试 Exam	6	
GR303006	大学生心理素质教育(2) Mental Health(2)	16	1	16			考查 Term Paper	4	
GR303025	劳动教育与双创实践(2) Labor Education and Innovation and	16	1		16		考查 Term Paper	3 夏	

	Entrepreneurship Practice(2)								
GR311601	军事理论 Military Theory	36	2	36			考试 Exam	1	
总计 Total		746	42	308	74				

2、通识教育选修 (Selective Courses of General Education) : 160 学时 (160 Hours), 10 学分 (10 Credits)

序号 No.	课程类别 Courses Classification	课程名称 Courses Name	学分 Credits	考核方式 Assessment	开课学期 Semester	备注 Notes
1	人文社科类 (含在线课程) Humanities and Social Sciences Courses (Inc. Online Courses)	见附件 1	6	考查 Term paper	2-8	5 个类别中选修 6 个学分, 其中国家安全教育 1 学分、新生研 讨课 1 学分均为必选, 其他合计 4 学分。
2	自然科学类 (含在线课程) Natural Science Courses (Inc. Online Courses)	见附件 2		考查 Term paper	2-8	
3	生态文明类 (自然文化、碳中和) Ecological Civilization Courses (Natural Culture、 Carbon-Neutral)	见附件 3		考查 Term paper	2-8	
4	体育与健康类 Sports and Health Courses	见附件 4		考查 Term paper	2-8	
5	新生研讨课程 Freshman Seminar	见附件 5		考查 Term paper	1-2	
6	创新创业教育类 (含在线课程) Innovation and Entrepreneurship Courses (Inc. Online Courses)	见附件 6	2	考查 Term paper	2-8	

7	审美与艺术类 Aesthetics and Art Courses	见附件 7	2	考查 Term paper	2-8	
总计 Total			10			

3、学科基础课程(Disciplinary Fundamental Courses)：528 学时(528 Hours)，33 学分(33 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR071057	经济学原理 Principles of Economics	48	3	48			考试 Exam	2	
DR071601	工商管理专业导论 Introduction to Business Administration	16	1	16			考查 Term Paper	1	
DR071602	习近平经济思想概论 Introduction to Xi Jinping Economic Thought	32	2	32			未知	1	
DR071603	管理学 Management	32	2				考试 Exam	1	
DR071613	会计学基础 Fundamental Accounting	48	3				考试 Exam	2	
DR072038	统计学 B Statistics B	48	3	42	6		考试 Exam	4	
DR073040	运筹学 Operations Research	64	4	56	8		考试 Exam	5	
DR073611	工商管理专业英语 Specialty English for Business Management	16	1				考试 Exam	6	
DR191003	高等数学 B(1) Higher Mathematics B(1)	96	6	96			考试 Exam	1	
DR191004	高等数学 B(2) Higher Mathematics B(2)	64	4	64			考试 Exam	2	
DR192606	线性代数 B Linear Algebra B	32	2	32			考试 Exam	3	

DR192607	概率论 Probability Theory	32	2	32			考试 Exam	3	
总计 Total		528	33	418	14				

4、专业核心课程(Specialized Core Courses)：448 学时(448 Hours)，28 学分(28 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR072212	组织行为学 Organization Behavior	32	2				考试 Exam	3	
SR072170	财务管理学 Financial Management	32	2				考试 Exam	3	
SR072176	矿业公司治理 Mineral Corporate Governance	16	1				考查 Term Paper	6	
SR072637	市场营销学 Marketing	48	3				考试 Exam	4	
SR072646	战略管理 Strategy Management	48	3				考试 Exam	3	
SR073175	企业风险管理 Enterprise Risk Management	32	2				考试 Exam	6	
SR073178	矿产资源项目技术经济评价 Technical and Economic Evaluation of Mineral Resource Projects	32	2				考试 Exam	5	
SR073636	人力资源管理 Human Resource Management	48	3				考试 Exam	5	
SR073645	运营管理 Operations Management	48	3				考试 Exam	5	
SR073648	智慧物流 Smart Logistics	48	3				考试 Exam	5	
SR074049	创业管理 Entrepreneurship Management	32	2	26	6		考查 Term Paper	4	
SR074633	企业文化与伦理 Corporate Culture and Ethics	32	2				考试 Exam	7	
总计 Total		448	28	26	6				

5、专业拓展课程(Specialized Development Courses)：176 学时(176 Hours)，11 学分(11 Credits) 至少选修 11 学分

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR072084	证券投资学 Securities Investment	32	2	24	8		考试 Exam	3	
DR072229	金融学 B Finance B	32	2				考试 Exam	3	
SR072114	管理信息系统 Management Information System	48	3	32	16		考试 Exam	4	
SR072177	矿产品国际贸易 International Trade o Mineral Products	32	2				考试 Exam	3	
SR072622	大数据下的电子商务 Electronic Commerce Based on Big Data	32	2				考试 Exam	4	
SR072640	数字经济概论 Introduction to the Digital Economy	32	2				考试 Exam	3	
SR073183	企业研究方法 Research Methods for Business	16	1				考查 Term Paper	7	
SR073257	大数据计量经济分析 Big Data Econometric Analysis	32	2	16	16		考试 Exam	6	
SR073635	区块链原理与应用 Principles and Applications of Blockchain	32	2				考试 Exam	5	
SS072203	经济法 B Economic Law B	32	2				考试 Exam	4	
SS072215	管理沟通与新媒体 Management Communication & New Media	32	2	25	7		考查 Term Paper	3	
SS072676	智能商务数据分析与决策 Intelligent Business Data Analysis and Decision -Making	16	1				考查 Term Paper	4	
SS073204	产业经济学 Industrial Economics	32	2				考试 Exam	5	
SS073216	珠宝商务 Jewelry Business	32	2				考查 Term Paper	5	

SS073228	金融数据分析与量化交易系统 Financial Data Analysis and Quantitative Trading System	32	2				考查 Term Paper	6	
SS073652	大数据安全与治理 Big Data Security and Governance	32	2				考试 Exam	5	
SS073664	人工智能原理与应用 Artificial Intelligence: Principles and Applications	32	2				考查 Term Paper	5	
SS073668	数据驱动营销与智能推荐 Data-Driven Marketing and Intelligent Recommendation Systems	32	2				考查 Term Paper	6	
SS073669	数智时代的组织变革：AI 赋能管理与创新前沿 Organizational Transformation in the Digital and Intelligent Era: Frontiers of AI-Enabled Management and Innovation	16	1				考查 Term Paper	5	
SS073670	碳交易与碳金融 Carbon Trading and Carbon Finance	16	1				考查 Term Paper	7	
SS074654	地质旅游管理 Geotourism Management	16	1				考试 Exam	7	
总计 Total		176	11	97	47				

6、课程实践 (Course Practice)：24 周+56 学时 (24 weeks and 56 Hours)，19 学分 (19 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR072050	教学实习 Teaching Practice	4 周	4	1	3		考查 Term Paper	2 夏	
PR072242	专业实习 Professional Practice	6 周	4				考查 Term Paper	3 夏	
PR074055	经营管理决策模拟 Management Decision Simulation	24	1		24		考查 Term Paper	7	
PR074680	毕业论文(工商) Graduation Thesis	12 周	6				考查 Term Paper	8	

PR181010	思想政治社会实践 Political Social Practice	32	2		32		考查 Term Paper	1 夏	
PR311602	军事技能训练 Military Training	2 周	2				考查 Term Paper	1	
总计 Total		24 周 +56 学 时	19	1	59				

7、课外实践（Extracurricular Practice）：6 学分（6 Credits）

包括主题教育活动、社会实践、志愿服务、勤工助学、学科竞赛、文体活动、创新创业活动、劳动实践等，其学分的认定按照教务处相关规定执行。

Extracurricular practice include Theme Education, Social Practice, Volunteer Service, Work-study Program, Discipline Competition, Cultural and Sports Activities, Innovative and Entrepreneurial Activities, Labor Practice and so on. The recognition of the credits for extracurricular practice shall be implemented according to the regulations of Academic Affairs Office.

会计学专业培养方案

一、专业培养目标

会计学专业立足国家战略发展需求和社会经济建设需要，致力于培养道德品质优秀，理论功底扎实，身体素质过硬，具有开拓创新精神、数字智能化思维，拥有高度社会责任感，掌握系统的会计、财务管理、审计和税务方面的专业理论知识，具备较强的实务操作和分析能力，熟悉会计发展动态，熟练运用大数据、人工智能分析方法，能够在大型企业集团、金融机构、会计师事务所、政府机关以及行政事业单位胜任专业工作的高水平复合型会计专门人才。

二、毕业要求

会计学专业毕业生应达到知识、能力、素质三个方面的培养要求：

（1）知识要求：系统掌握会计学、管理学和经济学的基本理论和基础知识；掌握会计理论以及定性与定量分析方法；熟悉会计相关的方针、政策和法规，了解会计理论前沿与发展动态；掌握数理统计、信息处理、计算机语言、数据分析等基础知识和方法；

（2）能力要求：熟练使用计算机与数学工具，具备信息检索、处理及数据分析和挖掘等能力；掌握一门外语，能够阅读本专业外文科技书刊，具备较强的听、说、写、译能力；具有较强的团队合作精神、组织协调能力，以及强烈的探究和创新意识；养成在未来职业生涯中不断学习更新知识、拓展职业空间的能力。

（3）素质要求：具备良好的品德操守、人文修养、职业道德和社会责任感；具有广阔的国际视野、精湛的专业素养和严谨的科学精神。

三、主干学科

会计学

四、学制与学位

学制四年。学生修满规定的最低毕业学分，达到毕业要求后，授予管理学学士学位。

五、核心课程

专业核心课程：会计学基础、中级财务会计、高级财务会计、财务管理、成本与管理会计、审计学、数据分析工具与方法、数据挖掘与商务智能等。

实践课程：会计职业认识、会计职业素质培养、专业实习；计算机模拟实务：业财融合与财务共享综合实训、管理会计与决策支持综合实训、智能审计实务模拟；毕业论文等。

Undergraduate Program in Accounting

1. Academic Objectives

This major aims to cultivate high-level composite accounting professionals with excellent ideological and moral quality, solid theoretical foundation, excellent physical quality, pioneering and innovative spirit, international strategic vision, decision-making ability and practical ability. Graduates are supposed to have a high sense of social responsibility, as well as strong ability of accounting processing, financial management, financial analysis and capital operation, and be familiar with domestic and foreign accounting development, be proficient in the use of big data, artificial intelligence, modern decision-making theory and methods, and be well qualified for professional work in large enterprise groups, financial institutions, accounting firms, government agencies and administrative institutions.

2. Graduation Requirements

Accounting graduates should meet the requirements of knowledge, ability and quality as follows:

(1) Knowledge Requirements: Mastering the basic theory and knowledge of accounting, management and economics; Mastering accounting theory and both qualitative and quantitative analysis methods; Being familiar with domestic and foreign accounting principles, policies and regulations, as well as the frontier of accounting theory; Mastering the basic knowledge and methods of mathematical statistics, information processing, computer language, data analysis, etc;

(2) Ability Requirements: Being proficient in computer and mathematical tools and possessing skills of information retrieval, data processing, and data mining; Mastering a foreign language, with the ability of reading professional books and papers, as well as skills of listening, speaking, writing and translating; Developing abilities of organizing, coordinating, exploring and innovating; Developing the ability of continuously self-learning and knowledge updating.

(3) Quality Requirements: Good moral integrity, humanistic cultivation, professional ethics and sense of social responsibility; Broad international vision, profound professional quality and rigorous scientific spirit.

3. Main disciplines

Accounting.

4. Length of Schooling and Degree

The length of schooling is four years of full-time study. Students will be awarded the Bachelor Degree of Management when they have completed the required minimum credits and have met all other requirements.

5. Core Courses

The core courses of this major include: Accounting, Intermediate Financial Accounting, Advanced Financial Accounting, Financial Management, Cost and Management Accounting, Auditing, Data Analysis Tools and Methods, Data Mining and Business Intelligence, etc.

The main practice courses include: Accounting Professional Cognition, the Education of Accounting Professional Quality, Management Accounting and Decision Support Practice, Financial Integration & Financial Sharing Practice, the Simulation of Intelligent Auditing, Professional Practice, Graduation thesis, etc.

六、最低毕业总学分要求及学分分配 (Minimum Required Credits and Distribution)

课程模块 Course Module	课程类别 Course Classification	学时数 Hours	学分 Credits	学 期 Semester											
				1	2	1 夏	3	4	2 夏	5	6	3 夏	7	8	
通识教育 Liberal Education	通识教育必修课程 Required Courses of General Education	682	38	13.25	10.25		4.25	4.25		3.25	1.25	1	0.25	0.25	
	通识教育选修课程 Selective Courses of General Education	160	10												
专业教育 Professional Education	学科基础课程 Disciplinary Fundamental Courses	456	28.5	9	12		4.5	3							
	专业核心课程 Specialized Core Courses	496	31				8	6		13	4				
	专业拓展课程 Specialized Development Courses	176	11				6	8		6	4				
实践教育 Practical Education	课程实践 Course Practice	23 周 +144 学时	26	2		2			1		2	8	5	6	
	课外实践 Extracurricular Practice	96	6												
必修课总学分 Required Course Credits				123.5											
选修课总学分 Elective Course Credits				27											
最低毕业总学分 Total Credits				150.5											

七、课程设置 (Curriculum)

1、通识教育必修课程(Required Courses of General Education)：682 学时(682 Hours)，38 学分(38 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
GR041011	人工智能概论 Introduction of Artificial Intelligence	32	2	16	16		考试 Exam	1	
GR081067	大学英语素质拓展课 Competence-oriented Education for College English	32	2				考试 Exam	2	
GR081071	大学英语(1) College English(1)	64	4	64			考试 Exam	1	
GR081072	大学英语(2) College English(2)	32	2				考试 Exam	2	
GR141005	体育(1)(系列课程) Physical Education(1)	32	1				考试 Exam	1	
GR141006	体育(2)(系列课程) Physical Education(2)	32	1				考试 Exam	2	
GR142007	体育(3)(系列课程) Physical Education(3)	32	1				考试 Exam	3	
GR142008	体育(4)(系列课程) Physical Education(4)	32	1				考试 Exam	4	
GR181008	中国近现代史纲要 Essentials of Modern Chinese History	48	3	48			考试 Exam	2	
GR181009	思想道德与法治 Ideological morality and rule of law	48	3				考试 Exam	1	
GR181013	形势与政策(1)	4	0.25	4			考查	1	

	Situation and Policy Education(1)						Term Paper		
GR181014	形势与政策(2) Situation and Policy(2)	4	0.25				考查 Term Paper	2	
GR181015	形势与政策(3) Situation and Policy(3)	4	0.25				考查 Term Paper	3	
GR181016	形势与政策(4) Situation and Policy(4)	4	0.25				考查 Term Paper	4	
GR181017	形势与政策(5) Situation and Policy(5)	4	0.25				考查 Term Paper	5	
GR181018	形势与政策(6) Situation and Policy(6)	4	0.25				考查 Term Paper	6	
GR181019	形势与政策(7) Situation and Policy(7)	4	0.25				考查 Term Paper	7	
GR181020	形势与政策(8) Situation and Policy(8)	4	0.25				考查 Term Paper	8	
GR182014	马克思主义基本原理 The Fundamental Principles of Marxism	48	3				考试 Exam	3	
GR182022	习近平新时代中国特色社会主义思想概论	48	3				考试 Exam	5	

	An Introduction to Xi Jinping Thought on Socialism with Chinese								
GR182024	毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thoughts and Theoretical System of the Chinese Characteristic Socialism	32	2	32			考试 Exam	4	
GR301004	大学生职业生涯规划与就业指导(1) Career Planning and Employment Guidance for University Students(1)	20	1	16	4		考试 Exam	2	
GR301005	大学生心理素质教育(1) Mental Health(1)	16	1	16			考查 Term Paper	1	
GR301024	劳动教育与双创实践(1) Labor Education and Innovation and Entrepreneurship Practice(1)	16	1	16			考查 Term Paper	2	
GR303005	大学生职业生涯规划与就业指导(2) Career Planning and Employment Guidance for University Students(2)	18	1	12	6		考试 Exam	6	
GR303006	大学生心理素质教育(2) Mental Health(2)	16	1	16			考查 Term Paper	4	
GR303025	劳动教育与双创实践(2) Labor Education and Innovation and Entrepreneurship Practice(2)	16	1		16		考查 Term Paper	3 夏	
GR311601	军事理论 Military Theory	36	2	36			考试 Exam	1	
总计		682	38	276	42				

Total								
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2、通识教育选修 (Selective Courses of General Education): 160 学时 (160 Hours), 10 学分 (10 Credits)

序号 No.	课程类别 Courses Classification	课程名称 Courses Name	学分 Credits	考核方式 Assessment	开课学期 Semester	备注 Notes
1	人文社科类 (含在线课程) Humanities and Social Sciences Courses (Inc. Online Courses)	见附件 1	6	考查 Term paper	2-8	5 个类别中选修 6 个学分, 其中国家安全教育 1 学分、新生研 讨课 1 学分均为必选, 其他合计 4 学分。
2	自然科学类 (含在线课程) Natural Science Courses (Inc. Online Courses)	见附件 2		考查 Term paper	2-8	
3	生态文明类 (自然文化、碳中和) Ecological Civilization Courses (Natural Culture、 Carbon-Neutral)	见附件 3		考查 Term paper	2-8	
4	体育与健康类 Sports and Health Courses	见附件 4		考查 Term paper	2-8	
5	新生研讨课程 Freshman Seminar	见附件 5		考查 Term paper	1-2	
6	创新创业教育类 (含在线课程) Innovation and Entrepreneurship Courses (Inc. Online Courses)	见附件 6	2	考查 Term paper	2-8	

7	审美与艺术类 Aesthetics and Art Courses	见附件 7	2	考查 Term paper	2-8	
总计 Total			10			

3、学科基础课程(Disciplinary Fundamental Courses)：456 学时(456 Hours)，28.5 学分(28.5 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR071057	经济学原理 Principles of Economics	48	3	48			考试 Exam	2	
DR071201	信息检索与数据分析 Information Retrieval & Data Analysis	32	2	16	16		考试 Exam	2	
DR071603	管理学 Management	32	2				考试 Exam	1	
DR071604	会计学专业导论 Introduction to Accounting	16	1				考查 Term Paper	1	
DR071613	会计学基础 Fundamental Accounting	48	3				考试 Exam	2	
DR072229	金融学 B Finance B	32	2				考试 Exam	3	
DR191003	高等数学 B(1) Higher Mathematics B(1)	96	6	96			考试 Exam	1	
DR191004	高等数学 B(2) Higher Mathematics B(2)	64	4	64			考试 Exam	2	
DR192006	概率论与数理统计 Probability and Statistics	48	3	48			考试 Exam	4	

DR192605	线性代数 A Linear Algebra A	40	2.5	40			考试 Exam	3	
总计 Total		456	28.5	312	16				

4、专业核心课程(Specialized Core Courses)：496 学时(496 Hours)，31 学分(31 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR072165	税法 Taxation Laws	48	3				考试 Exam	3	
DR073092	会计信息系统 Computer-based Accounting System	32	2	10	22		考试 Exam	5	
SR072095	高级财务会计 Advanced Financial Accounting	48	3				考试 Exam	5	
SR072098	审计学 Auditing	48	3				考试 Exam	5	
SR072230	中级财务会计 Intermediate Financial Accounting	80	5				考试 Exam	3	
SR072231	财务管理 Financial Management	64	4				考试 Exam	4	
SR072624	公司战略与风险管理 B Corporate Strategy and Risk Management B	32	2				考试 Exam	4	
SR073232	成本与管理会计 Cost and Management Accounting	48	3				考查 Term Paper	5	
SR073236	数据挖掘与商务智能 B Data Mining and Business Intelligence	32	2				考试 Exam	6	

	B								
SR073620	大数据处理与文本分析 B Big Data Processing and Text AnalysisB	32	2				考试 Exam	5	
SR073649	资产评估理论与实务 Theory and Practice of Property Assessment	32	2				考试 Exam	6	
总计 Total		496	31	10	22				

5、专业拓展课程(Specialized Development Courses)：160 学时(160 Hours)，10 学分(10 Credits) 至少选修 10 学分

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR072064	博弈论与信息经济学 Game Theory and Information Economics	32	2	32			考试 Exam	4	
DR072084	证券投资学 Securities Investment	32	2	24	8		考试 Exam	3	
SR072177	矿产品国际贸易 International Trade o Mineral Products	32	2				考试 Exam	3	
SR073233	财会英语 English for Financial Accounting	32	2				考试 Exam	5	
SS072203	经济法 B Economic Law B	32	2				考试 Exam	4	
SS072225	Python 程序设计 Python Program Design	32	2				考试 Exam	3	
SS072650	财务报表分析	32	2				考试	4	

	Analysis of Financial Statements						Exam		
SS072659	金融大数据与机器学习 Financial Big Data and Machine Learning	32	2				考查 Term Paper	4	
SS073216	珠宝商务 Jewelry Business	32	2				考查 Term Paper	5	
SS073280	复杂网络建模与分析 Complex Network Modeling and Analysis	32	2	20	12		考查 Term Paper	5	
SS073668	数据驱动营销与智能推荐 Data-Driven Marketing and Intelligent Recommendation Systems	32	2				考查 Term Paper	6	
总计 Total		160	10	76	20				

6、专业拓展课程（学科前沿）(Specialized Development Courses)：16 学时(16 Hours)，1 学分(1 Credits) 2 门选 1 门

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
SS073238	学科前沿课 - 财务会计发展前沿 Discipline Frontiers- the Frontier of Financial Accounting	16	1				考查 Term Paper	6	
SS073672	学科前沿课 – 环境伦理与环境会计 Discipline Frontiers- Environmental Ethics and Environmental Accounting	16	1				考查 Term Paper	6	
总计 Total		16	1						

注：学科前沿课中《环境伦理与环境会计》全院任选，《财务会计发展前沿》必须会计专业学生才能选修。

7、课程实践(Course Practice)：23 周+144 学时(23 weeks and 144 Hours)，26 学分(26 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR072102	会计职业认识 Accounting Professional Recognition	1 周	1	1			考查 Term Paper	2 夏	
PR073103	会计职业素质培养 The Education of Accounting Professional Quality	2 周	2	2			考查 Term Paper	3 夏	
PR073239	管理会计与决策支持综合实训 Management Accounting and Decision Support Practice	32	2				考试 Exam	6	
PR074107	专业实习 Professional Practice	6 周	6		6		考查 Term Paper	3 夏	
PR074240	业财融合与财务共享综合实训 Financial Integration & Financial Sharing Practice	48	3				考查 Term Paper	7	
PR074681	毕业论文(会计) Graduation Thesis	12 周	6				考查 Term Paper	8	
PR074695	智能审计实务模拟 The Simulation of Intelligent Auditing	32	2				考查 Term Paper	7	
PR181010	思想政治社会实践 Political Social Practice	32	2		32		考查 Term Paper	1 夏	
PR311602	军事技能训练	2 周	2				考查	1	

	Military Training						Term Paper		
总计 Total		23 周 +144 学时	26	3	38				

8、课外实践 (Extracurricular Practice): 6 学分 (6 Credits)

包括主题教育活动、社会实践、志愿服务、勤工助学、学科竞赛、文体活动、创新创业活动、劳动实践等，其学分的认定按照教务处相关规定执行。

Extracurricular practice include Theme Education, Social Practice, Volunteer Service, Work-study Program, Discipline Competition, Cultural and Sports Activities, Innovative and Entrepreneurial Activities, Labor Practice and so on. The recognition of the credits for extracurricular practice shall be implemented according to the regulations of Academic Affairs Office.

信息管理与信息系统专业培养方案

一、专业培养目标

本专业面向世界科技发展前沿、国家重大战略需求和社会经济建设发展需要，立足于大数据、人工智能和数字经济等时代发展诉求，培养德、智、体、美、劳全面发展，具备扎实的数理统计、信息检索与处理、数据分析、数据库管理等基础，掌握经济学原理、计算机与信息技术、信息资源管理等知识，具备数据挖掘与分析、系统规划与开发、项目管理、决策支持等能力，具有国际视野、专业素养、行业特色、科学精神、人文情怀、民族和社会责任感，洞悉大数据、人工智能和数字经济时代商务活动规律，有效驾驭信息技术，引领创新与实践，毕业后可在国家各级管理部门、工商企业、金融机构、科研及事业单位等部门从事信息管理与信息系统相关工作的复合型高级信息管理人才。经过 5-10 年的实际工作，能够承担胜任数据主管、算法总监、产品经理、数据科学家、智能系统架构师、数字化战略顾问等关键岗位，成为引领数字经济与智能社会发展的中坚力量。

二、毕业要求

1、知识要求

- ①掌握大数据、人工智能、数字经济等现代经济、管理、信息等基础理论；
- ②掌握数理统计、信息处理、计算机语言、数据库原理等基础知识和方法；
- ③掌握信息系统规划、分析、设计、实施、运行、维护等系统开发方法，具备从事管理信息系统应用、开发和管理的知识，具备系统性思维。

2、能力要求

- ①具备信息检索、处理、可视化、数据分析和挖掘等能力；
- ②具备管理信息系统的分析、设计、开发和实践管理等能力；
- ③具备专业实践、创新创业、科学研究、项目管理等能力。

3、素质要求

- ①具备良好的道德素养、国际视野、专业素养、行业特色、科学精神、人文情怀、民族和社会责任感；
- ②养成良好的世界观、人生观和价值观；
- ③具备良好的人际沟通素质与团队合作精神。

三、主干学科

管理科学与工程。

四、学制与学位

学制四年。学生修满规定的最低毕业学分，达到毕业要求后，授管理学学士学位。

五、核心课程

专业核心课程包括：管理信息系统、系统分析与设计、数据挖掘与商务智能、Java 程序设计、企业资源规划系统与应用、信息与网络安全管理、信息经济学、IT 项目管理等。

Undergraduate Program in Information Management and Information System

1. Academic Objectives

This major is oriented to the forefront of world science and technology development, the major national strategic needs and the needs of social and economic construction and development, and it is aligned with the era's demands for big data, artificial intelligence, and the digital economy. It cultivates all-round development of the talents with a solid foundation of mathematical statistics, information retrieval and processing, data analysis, database management, etc., and requires students to grasp the principles of economic management, computer and information technology, information resource management and other knowledge, having the ability of data mining and analysis, system planning and development, project management, international vision, professional quality, industry characteristics, scientific spirit, humanistic feelings, national and social responsibility, insight into the rules of business activities in the era of big data economy, effective control of information technology, and leading innovation and practice, after graduation, they can work in the national management departments at all levels, industrial and commercial enterprises, enterprises and enterprises Financial institutions, scientific research and institutions and other departments engaged in information management and information system related work of compound senior information management personnel. After five to ten years of practical work, the graduates can be qualified in pivotal roles such as Chief Data Officer, Algorithm Director, Product Manager, Data Scientist, Intelligent Systems Architect, and Digital Strategy Consultant, they will become the core drivers shaping the digital economy and an intelligent society.

2. Graduation Requirements

(1) Knowledge requirements

- ① Master the basic theories of modern economy, management and information for big data, artificial intelligence, and the digital economy;
- ② Master basic knowledge and methods of mathematical statistics, information

processing, computer language and database principles;

③ Master information system planning, analysis, design, implementation, operation, maintenance and other system development methods, have the basic knowledge of management information system application, development and management, have systematic thinking.

(2) Capacity requirements

① Information retrieval, processing, visualization, data analysis and mining capabilities;

② Management information system analysis, design, development and practice management capabilities;

③ Professional practice, innovation and entrepreneurship, scientific research, project management and other capabilities.

(3) Quality requirements

① Good moral quality, international vision, professional quality, industry characteristics, scientific spirit, humanistic feelings, national and social responsibility;

② Good outlook on world life and values;

③ Good interpersonal communication skills and team work spirit.

3. Main disciplines

Management Science and Engineering.

4. Length of Schooling and Degree

The length of schooling is four years of full-time study. Students will be awarded the Bachelor Degree of Management when they have completed the required minimum credits and have met all other requirements.

5. Core Courses

Management Information System, System Analysis and Design, Data Mining and Business Intelligence, Java Language Programming, Enterprise Resource Planning System and Application, Information Security Management, Information Economics and Project Management.

六、最低毕业总学分要求及学分分配 (Minimum Required Credits and Distribution)

课程模块 Course Module	课程类别 Course Classification	学时数 Hours	学分 Credits	学 期 Semester											
				1	2	1 夏	3	4	2 夏	5	6	3 夏	7	8	
通识教育 Liberal Education	通识教育必修课程 Required Courses of General Education	746	42	13.25	14.25		4.25	4.25		3.25	1.25	1	0.25	0.25	
	通识教育选修课程 Selective Courses of General Education	160	10												
专业教育 Professional Education	学科基础课程 Disciplinary Fundamental Courses	552	34.5	9	13		6.5	6							
	专业核心课程 Specialized Core Courses	416	26				5	8.5		6.5	6				
	专业拓展课程 Specialized Development Courses	176	11				4	6		8	10		2		
实践教育 Practical Education	课程实践 Course Practice	25 周 +120 学时	26.5	2		2	1	1.5	4	1	3	6		6	
	课外实践 Extracurricular Practice	96	6												
必修课总学分 Required Course Credits				129											
选修课总学分 Elective Course Credits				27											
最低毕业总学分 Total Credits				156											

七、课程设置 (Curriculum)

1、通识教育必修课程(Required Courses of General Education)：746 学时(746 Hours)，42 学分(42 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
GR041002	计 算 机 语 言 程 序 设 计 Computer Language Programming	64	4	32	32		考试 Exam	2	
GR041011	人 工 智 能 概 论 Introduction of Artificial Intelligence	32	2	16	16		考试 Exam	1	
GR081067	大 学 英 语 素 质 拓 展 课 Competence-oriented Education for College English	32	2				考试 Exam	2	
GR081071	大 学 英 语 (1) College English(1)	64	4	64			考试 Exam	1	
GR081072	大 学 英 语 (2) College English(2)	32	2				考试 Exam	2	
GR141005	体 育 (1)(系 列 课 程) Physical Education(1)	32	1				考试 Exam	1	
GR141006	体 育 (2)(系 列 课 程) Physical Education(2)	32	1				考试 Exam	2	
GR142007	体 育 (3)(系 列 课 程) Physical Education(3)	32	1				考试 Exam	3	
GR142008	体 育 (4)(系 列 课 程) Physical Education(4)	32	1				考试 Exam	4	
GR181008	中 国 近 现 代 史 纲 要 Essentials of Modern Chinese History	48	3	48			考试 Exam	2	
GR181009	思 想 道 德 与 法 治 Ideological morality and rule of law	48	3				考试 Exam	1	
GR181013	形 势 与 政 策 (1) Situation and Policy Education(1)	4	0.25	4			考查 Term Paper	1	
GR181014	形 势 与 政 策 (2) Situation and Policy(2)	4	0.25				考查 Term Paper	2	

GR181015	形 势 与 政 策 (3) Situation and Policy(3)	4	0.25				考查 Term Paper	3	
GR181016	形 势 与 政 策 (4) Situation and Policy(4)	4	0.25				考查 Term Paper	4	
GR181017	形 势 与 政 策 (5) Situation and Policy(5)	4	0.25				考查 Term Paper	5	
GR181018	形 势 与 政 策 (6) Situation and Policy(6)	4	0.25				考查 Term Paper	6	
GR181019	形 势 与 政 策 (7) Situation and Policy(7)	4	0.25				考查 Term Paper	7	
GR181020	形 势 与 政 策 (8) Situation and Policy(8)	4	0.25				考查 Term Paper	8	
GR182014	马 克 思 主 义 基 本 原 理 The Fundamental Principles of Marxism	48	3				考试 Exam	3	
GR182022	习近平新时代中国特色社会主义思想概 论 An Introduction to Xi Jinping Thought on Socialism with Chinese	48	3				考试 Exam	5	
GR182024	毛泽东思想和中国特色社会主义理论 体 系 概 论 Introduction to Mao Zedong Thoughts and Theoretical System of the Chinese Characteristic Socialism	32	2	32			考试 Exam	4	
GR301004	大学生职业生涯规划与就业指导(1) Career Planning and Employment Guidance for University Students(1)	20	1	16	4		考试 Exam	2	
GR301005	大 学 生 心 理 素 质 教 育 (1) Mental Health(1)	16	1	16			考查 Term Paper	1	
GR301024	劳 动 教 育 与 双 创 实 践 (1) Labor Education and Innovation and Entrepreneurship Practice(1)	16	1	16			考查 Term Paper	2	
GR303005	大学生职业生涯规划与就业指导(2)	18	1	12	6		考试	6	

	Career Planning and Employment Guidance for University Students(2)						Exam		
GR303006	大学生心理素质教育(2) Mental Health(2)	16	1	16			考查 Term Paper	4	
GR303025	劳动教育与双创实践(2) Labor Education and Innovation and Entrepreneurship Practice(2)	16	1		16		考查 Term Paper	3 夏	
GR311601	军事理论 Military Theory	36	2	36			考试 Exam	1	
总计 Total		746	42	308	74				

2、通识教育选修 (Selective Courses of General Education): 160 学时 (160 Hours), 10 学分 (10 Credits)

序号 No.	课程类别 Courses Classification	课程名称 Courses Name	学分 Credits	考核方式 Assessment	开课学期 Semester	备注 Notes
1	人文社科类 (含在线课程) Humanities and Social Sciences Courses (Inc. Online Courses)	见附件 1	6	考查 Term paper	2-8	5 个类别中选修 6 个学分, 其中国家安全教育 1 学分、新生研 讨课 1 学分均为必选, 其他合计 4 学分。
2	自然科学类 (含在线课程) Natural Science Courses (Inc. Online Courses)	见附件 2		考查 Term paper	2-8	
3	生态文明类 (自然文化、碳中和) Ecological Civilization Courses (Natural Culture、 Carbon-Neutral)	见附件 3		考查 Term paper	2-8	
4	体育与健康类 Sports and Health Courses	见附件 4		考查 Term paper	2-8	

5	新生研讨课程 Freshman Seminar	见附件 5		考查 Term paper	1-2	
6	创新创业教育类（含在线课程） Innovation and Entrepreneurship Courses (Inc. Online Courses)	见附件 6	2	考查 Term paper	2-8	
7	审美与艺术类 Aesthetics and Art Courses	见附件 7	2	考查 Term paper	2-8	
总计 Total			10			

3、学科基础课程(Disciplinary Fundamental Courses)：552 学时(552 Hours)，34.5 学分(34.5 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR071057	经 济 学 原 理 Principles of Economics	48	3	48			考试 Exam	2	
DR071201	信 息 检 索 与 数 据 分 析 Information Retrieval & Data Analysis	32	2	16	16		考试 Exam	2	
DR071603	管 理 学 Management	32	2				考试 Exam	1	
DR071608	信 息 管 理 与 信 息 系 统 专 业 导 论 Introduction to Information Management and Information System	16	1				考查 Term Paper	1	
DR071612	会 计 学 Accounting	32	2				考试 Exam	2	
DR072615	运 筹 学 B Operational Research B	48	3				考查 Term Paper	4	
DR191001	高 等 数 学 A(1)	96	6	96			考试	1	

	Higher Mathematics A(1)						Exam		
DR191002	高等数学 A(2) Higher Mathematics A(2)	96	6	96			考试 Exam	2	
DR192006	概率论与数理统计 Probability and Statistics	48	3	48			考试 Exam	4	
DR192605	线性代数 A Linear Algebra A	40	2.5	40			考试 Exam	3	
SR072116	信息资源管理 Information Resource Management	32	2	32			考试 Exam	3	
SS072225	Python 程序设计 Python Program Design	32	2				考试 Exam	3	
总计 Total		552	34.5	376	16				

4、专业核心课程(Specialized Core Courses)：416 学时(416 Hours)，26 学分(26 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR072111	数据库原理及设计 Principle of Database Systems	48	3	32	16		考试 Exam	3	
SR072622	大数据下的电子商务 Electronic Commerce Based on Big Data	32	2				考试 Exam	4	
SR072625	管理信息系统 Management Information System	32	2				考试 Exam	4	
SR072632	企业管理流程 Business Management Process	32	2				考试 Exam	4	
SR072634	企业资源规划系统与应用 Enterprise Resource Planning System and Application	40	2.5				考试 Exam	4	
SR072638	数据结构 Data Structure	32	2				考试 Exam	3	
SR073162	信息经济学 Information Economics	32	2				考试 Exam	5	

	Information Economics						Exam		
SR073616	IT 项 目 管 理 IT Project Management	32	2				考试 Exam	6	
SR073617	Java 程 序 设 计 Java Program Design	40	2.5				考试 Exam	5	
SR073639	数 据 挖 掘 与 商 务 智 能 A Data Mining and Business Intelligence A	32	2				考试 Exam	6	
SR073643	系 统 分 析 与 设 计 System Analysis and Design	32	2				考试 Exam	6	
SR073644	信 息 与 网 络 安 全 管 理 Information and Network Security Management	32	2				考试 Exam	5	
总计 Total		416	26	32	16				

5、专业拓展课程(Specialized Development Courses)：176 学时(176 Hours)，11 学分(11 Credits) 至少选修 11 学分

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
SR072619	大 数 据 处 理 与 文 本 分 析 Big Data Processing and Text Analysis	32	2				考试 Exam	5	
SR073123	信 息 管 理 专 业 英 语 English for Information Management	32	2				考试 Exam	3	
SR073257	大 数 据 计 量 经 济 分 析 Big Data Econometric Analysis	32	2	16	16		考试 Exam	6	
SS072226	公 司 战 略 与 风 险 管 理 Corporate Strategy and Risk Management	32	2				考试 Exam	4	
SS072666	市 场 营 销 智 能 决 策 Marketing Intelligent Decision	32	2				考查 Term Paper	4	
SS073223	地 理 信 息 系 统 Geographic Information System	32	2				考试 Exam	4	

SS073227	低碳经济理论与实践 Theory and practice of Low-carbon Economy	32	2				考查 Term Paper	3	
SS073228	金融数据分析与量化交易系统 Financial Data Analysis and Quantitative Trading System	32	2				考查 Term Paper	6	
SS073280	复杂网络建模与分析 Complex Network Modeling and Analysis	32	2	20	12		考查 Term Paper	5	
SS073657	计算社会实验与仿真 Computational Social Experiment and Simulation	32	2				考试 Exam	5	
SS073664	人工智能原理与应用 Artificial Intelligence: Principles and Applications	32	2				考查 Term Paper	5	
SS073674	遥感图像分析与应用 Remote Sensing Image Analysis and Application	32	2				考查 Term Paper	6	
SS073675	移动应用开发 Mobile Application Development	32	2				考试 Exam	6	
SS073677	智能物流系统设计与优化 Intelligent Logistics System Design and Optimization	32	2				考试 Exam	6	
SS074222	学科前沿课 - 信息管理学科前沿 Discipline Frontiers-Information management Discipline Frontiers	16	1				考查 Term Paper	7	
SS074673	学科前沿课 信息系统学科前沿 Discipline Frontiers-Information System Discipline Frontiers	16	1				考查 Term Paper	7	
总计 Total		176	11	36	28				

6、课程实践 (Course Practice)：25 周+120 学时 (25 weeks and 120 Hours)，26.5 学分 (26.5 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR072126	教 学 实 习 Teaching Practice	4 周	4		4		考查 Term Paper	2 夏	
PR072200	Python 数 据 采 集 和 分 析 实 训 Data collection and analysis by Python	1 周	1				考查 Term Paper	3	
PR072688	能源矿产资源大数据分析与可视化实训 Energy and Mineral Resources Big Data Analysis and Visualization	16	1				考查 Term Paper	4	
PR072690	企 业 管 理 流 程 实 践 Practice of Business Management Process	8	0.5				考查 Term Paper	4	
PR073127	专 业 实 习 Major Practice	6 周	6		6		考查 Term Paper	3 夏	
PR073691	企 业 经 营 数 据 分 析 实 践 Practice of Business Data Analysis	16	1				考查 Term Paper	6	
PR073692	人 工 智 能 与 大 模 型 综 合 实 训 AI and Large-scale Model Practical Training	16	1				考查 Term Paper	5	
PR073693	信息管理与信息系统创新科研课堂 Innovation and Research Seminar on Information Management and Information System	32	2				考查 Term Paper	6	
PR074685	毕业论文(信息管理与信息系统) Graduation Thesis	12 周	6				考查 Term Paper	8	
PR181010	思 想 政 治 社 会 实 践 Political Social Practice	32	2		32		考查 Term Paper	1 夏	
PR311602	军 事 技 能 训 练 Military Training	2 周	2				考查 Term Paper	1	
总计 Total		25 周 +120 学时	26.5		42				

7、课外实践 (Extracurricular Practice): 6 学分 (6 Credits)

包括主题教育活动、社会实践、志愿服务、勤工助学、学科竞赛、文体活动、创新创业活动、劳动实践等，其学分的认定按照教务处相关规定执行。

Extracurricular practice include Theme Education, Social Practice, Volunteer Service, Work-study Program, Discipline Competition, Cultural and Sports Activities, Innovative and Entrepreneurial Activities, Labor Practice and so on. The recognition of the credits for extracurricular practice shall be implemented according to the regulations of Academic Affairs Office.

大数据管理与应用专业培养方案

Undergraduate Program in Big Data Management and Application

一、专业简介 (Major Introduction)

中国地质大学（北京）大数据管理与应用专业属于管理学前沿交叉学科，立足于学校地质资源领域的办学特色与学科优势，依托经济管理学院管理科学与工程、应用经济学等传统优势学科底蕴，深度融合数据挖掘、智能分析与数据治理等先进技术手段，构建以资源环境管理场景为牵引、数据智能为核心、决策赋能为导向的特色育人模式。专业着力培育兼具经济管理思维、数据科学素养与综合决策能力，既懂业务又懂技术的复合型创新人才，使学生具备运用大数据管理理论和方法解决复杂经济管理问题的能力，助力数字中国建设与资源环境行业数字化转型升级。

The Big Data Management and Application program at China University of Geosciences (Beijing) is a cutting-edge interdisciplinary discipline within management studies. Rooted in the university's distinctive strengths and academic advantages in the field of geological resources, and supported by the traditional disciplinary foundations of Management Science and Engineering, Applied Economics, and other related fields within the School of Economics and Management, the program deeply integrates advanced technical methods such as data mining, intelligent analytics, and data governance. It establishes a distinctive educational model driven by resource and environmental management scenarios, centered on data intelligence, and oriented toward decision empowerment. The program is dedicated to nurturing compound innovative talents who possess economic management thinking, data science literacy, and comprehensive decision-making capabilities — professionals who understand both business operations and technology. It equips students with the ability to apply big data management theories and methods to solve complex economic management problems, thereby contributing to the development of Digital China and the digital transformation of the resource and environmental industries.

二、专业培养目标 (Academic Objectives)

本专业旨在培养德、智、体、美、劳全面发展，具备扎实的数学、计算机、经济管理等理论基础；掌握大数据、人工智能、复杂管理决策等专业知识；具有较强的实践动手能力、创新能力及数据素养；能够运用大数据与人工智能理论方法，解决资源环境领域的复杂管理问题，可在政府部门、工商企业、科研及事业单位，特别是地矿相关领域从事大数据管理、应用与决策支持的复合型高层次专业人才。

This program aims to cultivate high-quality compound professionals who develop comprehensively in moral, intellectual, physical, aesthetic, and labor education. Students will

acquire solid theoretical foundations in mathematics, computer science, economics, and management; master professional knowledge in big data, artificial intelligence, and complex management decision-making; possess strong practical abilities, innovation capabilities, and data literacy; and be capable of applying big data and artificial intelligence theories and methods to solve complex management problems in the field of resources and environment. Graduates are qualified to engage in big data management, application, and decision support in government departments, industrial and commercial enterprises, research institutions, and public sector organizations, particularly in geology and mining-related fields.

三、毕业要求（Academic Requirement）

1、知识要求

- ① 掌握现代地球科学及资源环境经济、管理、数据科学等基础理论；
- ② 掌握数理统计、多元统计、计算机语言、数据库原理等基础知识和方法；
- ③ 掌握大数据采集、处理、分析、挖掘与智能决策的核心技术与方法。

2、能力要求

- ① 具备信息检索、数据可视化、模型构建和分析等专业基础能力；
- ② 具备应用大数据与人工智能技术解决资源环境领域复杂管理问题的综合应用能力；
- ③ 具备专业实践、创新创业、科学研究等可持续发展能力。

3、素质要求

- ① 具备良好的道德素养、国际视野、专业素养、行业特色、科学精神、人文情怀、民族和社会责任感；
- ② 养成良好的世界观、人生观和价值观；
- ③ 具备良好的人际沟通素质与团队合作精神。

(1) Knowledge Requirements

- ① Master the basic theories of modern Earth sciences as well as resource and environmental economics, management, and data science;
- ② Master the basic knowledge and methods such as mathematical statistics, multivariate statistics, computer programming languages, and database principles.
- ③ Master the core technologies and methods of big data collection, processing, analysis, mining, and intelligent decision-making.

(2) Ability Requirements

- ① Possess basic professional abilities in information retrieval, data visualization, model construction, and analysis;
- ② Possess comprehensive application abilities to solve complex management problems in the resource and environmental field using big data and artificial intelligence technologies;
- ③ Possess sustainable development abilities in professional practice, innovation and entrepreneurship, and scientific research.

(3) Quality Requirements

- ① Possess good moral character, international perspective, professional competence, industry-specific traits, scientific spirit, humanistic sentiment, as well as a strong sense of national and social responsibility;

- ② Cultivate sound worldviews, life perspectives, and value systems;
- ③ Possess good interpersonal communication skills and a spirit of teamwork.

四、主干学科（Main disciplines）

管理科学与工程

Management Science and Engineering

五、学制与学位（Length of Schooling and Degree）

学制四年。达到培养方案规定的各项要求，授管理学学士学位。

The length of schooling is four years of full-time study. Students will be awarded the Bachelor Degree of Management when they have completed the required minimum credits and have met all other requirements.

六、核心课程（Core Courses）

专业核心课程包括：大数据处理与文本分析、管理信息系统、大数据技术基础、数据挖掘与商务智能、大数据安全与治理、大数据系统设计与开发、智能优化算法基础、数据资产经营与管理、大数据计量经济分析等。

Big Data Processing and Text Analysis, Management Information Systems, Big Data Technology Fundamentals, Data Mining & Business Intelligence, Big Data Security and Governance, Design and Development of Big Data Systems, Fundamentals of Intelligent Optimization Algorithms, Data Asset Management and Operations, and Econometric Analysis of Big Data.

七、最低毕业总学分要求及学分分配 (Minimum Required Credits and Distribution)

课程模块 Course Module	课程类别 Course Classification	学时数 Hours	学分 Credits	学 期Semester											
				1	2	1夏	3	4	2夏	5	6	3夏	7	8	
通识教育 Liberal Education	通识教育必修课程 Required Courses of General Education	746	42	13.25	14.25		4.25	4.25		3.25	1.25	1	0.25	0.25	
	通识教育选修课程 Selective Courses of General Education	160	10												
专业教育 Professional Education	学科基础课程 Disciplinary Fundamental Courses	520	32.5	9	13		4.5	6							
	专业核心课程 Specialized Core Courses	416	26				7	9		6	4				
	专业拓展课程 Specialized Development Courses	160	10				4	8		10	4		1		
实践教育 Practical Education	课程实践 Course Practice	15周+61学时	25	2		2	1	1	4	2	1	6		6	
	课外实践 Extracurricular Practice	96	6												
必修课总学分 Required Course Credits				125.5											
选修课总学分 Elective Course Credits				26											
最低毕业总学分 Total Credits				151.5											

八、课程设置 (Curriculum)

1、通识教育必修课程(Required Courses of General Education)：746学时(746 Hours)，42学分(42 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
GR041002	计算机语言程序设计 Computer Language Programming	64	4	32	32		考试 Exam	2	
GR041011	人工智能概论 Introduction of Artificial Intelligence	32	2	16	16		考试 Exam	1	
GR081067	大学英语素质拓展课 Competence-oriented Education for College English	32	2				考试 Exam	2	
GR081071	大学英语(1) College English(1)	64	4	64			考试 Exam	1	
GR081072	大学英语(2) College English(2)	32	2				考试 Exam	2	
GR141005	体育(1)(系列课程) Physical Education(1)	32	1				考试 Exam	1	
GR141006	体育(2)(系列课程) Physical Education(2)	32	1				考试 Exam	2	
GR142007	体育(3)(系列课程) Physical Education(3)	32	1				考试 Exam	3	
GR142008	体育(4)(系列课程) Physical Education(4)	32	1				考试 Exam	4	
GR181008	中国近现代史纲要 Essentials of Modern Chinese History	48	3	48			考试 Exam	2	
GR181009	思想道德与法治 Ideological morality and rule of law	48	3				考试 Exam	1	
GR181013	形势与政策(1)	4	0.25	4			考查	1	

	Situation and Policy Education(1)						Term Paper		
GR181014	形势与政策(2) Situation and Policy(2)	4	0.25				考查 Term Paper	2	
GR181015	形势与政策(3) Situation and Policy(3)	4	0.25				考查 Term Paper	3	
GR181016	形势与政策(4) Situation and Policy(4)	4	0.25				考查 Term Paper	4	
GR181017	形势与政策(5) Situation and Policy(5)	4	0.25				考查 Term Paper	5	
GR181018	形势与政策(6) Situation and Policy(6)	4	0.25				考查 Term Paper	6	
GR181019	形势与政策(7) Situation and Policy(7)	4	0.25				考查 Term Paper	7	
GR181020	形势与政策(8) Situation and Policy(8)	4	0.25				考查 Term Paper	8	
GR182014	马克思主义基本原理 The Fundamental Principles of Marxism	48	3				考试 Exam	3	
GR182022	习近平新时代中国特色社会主义思想概论 An Introduction to Xi Jinping Thought on Socialism with Chinese	48	3				考试 Exam	5	
GR182024	毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thoughts and Theoretical System of the Chinese Characteristic Socialism	32	2	32			考试 Exam	4	
GR301004	大学生职业生涯规划与就业指导(1) Career Planning and Employment Guidance for University Students(1)	20	1	16	4		考试 Exam	2	
GR301005	大学生心理素质教育(1) Mental Health(1)	16	1	16			考查 Term Paper	1	
GR301024	劳动教育与双创实践(1)	16	1	16			考查	2	

	Labor Education and Innovation and Entrepreneurship Practice(1)						Term Paper		
GR303005	大学生职业生涯规划与就业指导(2) Career Planning and Employment Guidance for University Students(2)	18	1	12	6		考试 Exam	6	
GR303006	大学生心理素质教育(2) Mental Health(2)	16	1	16			考查 Term Paper	4	
GR303025	劳动教育与双创实践(2) Labor Education and Innovation and Entrepreneurship Practice(2)	16	1		16		考查 Term Paper	3夏	
GR311601	军事理论 Military Theory	36	2	36			考试 Exam	1	
总计 Total		746	42	308	74				

2、通识教育选修 (Selective Courses of General Education) : 160学时 (160 Hours), 10学分 (10 Credits)

序号 No.	课程类别 Courses Classification	课程名称 Courses Name	学分 Credits	考核方式 Assessment	开课学期 Semester	备注 Notes
1	人文社科类 (含在线课程) Humanities and Social Sciences Courses (Inc. Online Courses)	见附件1	6	考查 Term paper	2-8	5个类别中选修6个学分, 其中国家安全教育1学分、新生研讨 课1学分均为必选, 其他合计4学分。
2	自然科学类 (含在线课程) Natural Science Courses (Inc. Online Courses)	见附件2		考查 Term paper	2-8	
3	生态文明类 (自然文化、碳中和) Ecological Civilization Courses (Natural Culture、 Carbon-Neutral)	见附件3		考查 Term paper	2-8	

4	体育与健康类 Sports and Health Courses	见附件4		考查 Term paper	2-8	
5	新生研讨课程 Freshman Seminar	见附件5		考查 Term paper	1-2	
6	创新创业教育类（含在线课程） Innovation and Entrepreneurship Courses (Inc. Online Courses)	见附件6	2	考查 Term paper	2-8	
7	审美与艺术类 Aesthetics and Art Courses	见附件7	2	考查 Term paper	2-8	
总计 Total			10			

3、学科基础课程(Disciplinary Fundamental Courses)：520学时(520 Hours)，32.5学分(32.5 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
DR071057	经济学原理 Principles of Economics	48	3	48			考试 Exam	2	
DR071201	信息检索与数据分析 Information Retrieval & Data Analysis	32	2	16	16		考试 Exam	2	
DR071222	大数据管理与应用专业导论 Introduction to Big Data Management and Application	16	1				考查 Term Paper	1	
DR071603	管理学 Management	32	2				考试 Exam	1	

DR071612	会计学 Accounting	32	2				考试 Exam	2	
DR072615	运筹学B Operational Research B	48	3				考查 Term Paper	4	
DR191001	高等数学A(1) Higher Mathematics A(1)	96	6	96			考试 Exam	1	
DR191002	高等数学A(2) Higher Mathematics A(2)	96	6	96			考试 Exam	2	
DR192006	概率论与数理统计 Probability and Statistics	48	3	48			考试 Exam	4	
DR192605	线性代数A Linear Algebra A	40	2.5	40			考试 Exam	3	
SS072225	Python程序设计 Python Program Design	32	2				考试 Exam	3	
总计 Total		520	32.5	344	16				

4、专业核心课程(Specialized Core Courses)：416学时(416 Hours)，26学分(26 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
DR072111	数据库原理及设计 Principle of Database Systems	48	3	32	16		考试 Exam	3	
SR072251	大数据技术基础 Basics of Big Data Technology	32	2	32			考试 Exam	4	
SR072619	大数据处理与文本分析 Big Data Processing and Text Analysis	32	2				考试 Exam	3	
SR072623	多元统计分析 Multivariate Statistical Analysis	32	2				考试 Exam	4	
SR072625	管理信息系统 Management Information System	32	2				考试 Exam	4	

SR072638	数据结构 Data Structure	32	2				考试 Exam	3	
SR073221	数据挖掘与商务智能A Data Mining and Business Intelligence A	48	3				考试 Exam	4	
SR073255	智能优化算法基础 Basics of Intelligent Optimization Algorithms	32	2	24	8		考试 Exam	5	
SR073256	数据资产经营与管理 Data Asset Management and Operation	32	2	16	16		考试 Exam	6	
SR073257	大数据计量经济分析 Big Data Econometric Analysis	32	2	16	16		考试 Exam	6	
SR073621	大数据系统设计与开发 Big Data System Design and Development	32	2				考试 Exam	5	
SS073652	大数据安全与治理 Big Data Security and Governance	32	2				考试 Exam	5	
总计 Total		416	26	120	56				

5、专业拓展课程(Specialized Development Courses)：160学时(160 Hours)，10学分(10 Credits) 至少选修10学分

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
SR072116	信息资源管理 Information Resource Management	32	2	32			考试 Exam	3	
SR072622	大数据下的电子商务 Electronic Commerce Based on Big Data	32	2				考试 Exam	4	
SR073162	信息经济学 Information Economics	32	2				考试 Exam	5	

SR073616	IT项目管理 IT Project Management	32	2				考试 Exam	6	
SR073635	区块链原理与应用 Principles and Applications of Blockchain	32	2				考试 Exam	5	
SS072653	大数据专业英语 English for Big Data Major	32	2				考查 Term Paper	3	
SS072659	金融大数据与机器学习 Financial Big Data and Machine Learning	32	2				考查 Term Paper	4	
SS072666	市场营销智能决策 Marketing Intelligent Decision	32	2				考查 Term Paper	4	
SS073223	地理信息系统 Geographic Information System	32	2				考试 Exam	4	
SS073280	复杂网络建模与分析 Complex Network Modeling and Analysis	32	2	20	12		考查 Term Paper	5	
SS073657	计算社会实验与仿真 Computational Social Experiment and Simulation	32	2				考试 Exam	5	
SS073664	人工智能原理与应用 Artificial Intelligence: Principles and Applications	32	2				考查 Term Paper	5	
SS073674	遥感图像分析与应用 Remote Sensing Image Analysis and Application	32	2				考查 Term Paper	6	
SS074262	大数据管理与应用学科前沿 Frontiers in Big Data Management and Applications	16	1	16			考查 Term Paper	7	
总计 Total		160	10	68	12				

6、课程实践(Course Practice)：15周+61学时(15 weeks and 61 Hours)，25学分(25 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR072126	教学实习 Teaching Practice	4周	4		4		考查 Term Paper	2夏	
PR072200	Python数据采集和分析实训 Data collection and analysis by Python	1周	1				考查 Term Paper	3	
PR072263	自然资源大数据挖掘与可视化实训 Nature Resources Big Data Mining and Visualization	1周	1				未知	4	
PR073127	专业实习 Major Practice	6周	6		6		考查 Term Paper	3夏	
PR073265	大数据管理与应用科研课堂 Big data Management and Application Research Classroom	1周	1				考查 Term Paper	6	
PR073686	大数据智能决策综合实训 Comprehensive Practical Training on Big Data Intelligent Decision-Making	1	1				考查 Term Paper	5	
PR073691	企业经营数据分析实践 Practice of Business Data Analysis	16	1				考查 Term Paper	5	
PR074678	毕业论文（大数据管理与应用） Graduation Thesis	12	6				考查 Term Paper	8	
PR181010	思想政治社会实践 Political Social Practice	32	2		32		考查 Term Paper	1夏	
PR311602	军事技能训练 Military Training	2周	2				考查 Term Paper	1	
总计 Total		15周 +61学时	25		42				

7、课外实践（Extracurricular Practice）：6学分（6 Credits）

包括主题教育活动、社会实践、志愿服务、勤工助学、学科竞赛、文体活动、创新创业活动、劳动实践等，其学分的认定按照教务处相关规定执行。

Extracurricular practice include Theme Education, Social Practice, Volunteer Service, Work-study Program, Discipline Competition, Cultural and Sports Activities, Innovative and Entrepreneurial Activities, Labor Practice and so on. The recognition of the credits for extracurricular practice shall be implemented according to the regulations of Academic Affairs Office.

经济学专业培养方案

Undergraduate Program in Economics

一、专业简介 (Major Introduction)

经济学是研究经济运行规律及资源优化配置问题的基础性社会科学，主要分析居民、企业、政府等经济主体在生产、分配、交换和消费过程中的行为及其相互关系，揭示市场运行、宏观调控和经济发展的基本规律。经济学以马克思主义政治经济学，微观经济学和宏观经济学为基础，同时涵盖金融学、国际经济与贸易、产业经济学、区域经济学、资源与环境经济学等多个分支领域，具有较强的理论性、实践性和应用性。经济学注重理论与数量分析方法相结合，强调运用经济学基本原理和现代分析工具认识经济现象、分析现实问题并服务经济社会发展。

Economics is a foundational discipline in the social sciences that studies the laws governing economic operation and the optimal allocation of scarce resources. It examines the behavior of major economic agents, including households, firms, and governments, in the processes of production, distribution, exchange, and consumption, and explores the underlying mechanisms of market operation, macroeconomic regulation, and economic development. The discipline is grounded in Marxist Political Economy, Microeconomics, and Macroeconomics, and encompasses a wide range of specialized fields, including Finance, International Economics and Trade, Industrial Economics, Regional Economics, and Resource and Environmental Economics. Economics is characterized by its strong theoretical foundation, practical relevance, and applied orientation. It emphasizes the integration of theoretical inquiry with quantitative analytical methods and focuses on applying economic principles and modern analytical tools to the understanding of economic phenomena, the analysis of real-world problems, and the service of socioeconomic development.

二、专业培养目标 (Academic Objectives)

本专业面向经济社会高质量发展需求，围绕中国式现代化建设中资源环境经济与金融发展需要，培养德、智、体、美、劳全面发展，适应国家战略实施和经济管理实践需要，系统掌握经济学基本理论、基本知识与现代经济学分析方法，具备经济分析、政策研究、数据应用、投资决策和经营管理能力，具有良好的人文素养、科学精神、社会责任感、国际视野和创新意识，毕业后可在综合经济管理部门、资源环境经济相关领域、政策研究部门、金融机构和企事业单位从事经济分析、政策研究、投资理财和经营管理工作的高素质复合型人才。

This program is designed to meet the needs of high-quality socioeconomic development and to respond to the demands of resource and environmental economics and financial development in the context of Chinese modernization. It aims to cultivate students with sound moral character, intellectual competence, physical well-being, aesthetic appreciation, and a strong work ethic. Students are expected to systematically acquire a solid grounding in the fundamental theories, basic knowledge, and modern analytical methods of economics; to develop competencies in economic

analysis, policy research, data application, investment decision-making, and business administration; and to possess strong humanistic literacy, scientific spirit, social responsibility, an international perspective, and an innovative mindset. Graduates are prepared to become high-caliber interdisciplinary professionals capable of engaging in economic analysis, policy research, investment and financial management, and business administration in comprehensive economic management departments, sectors related to resources and environmental economics, policy research institutions, financial institutions, and enterprises and public organizations.

三、毕业要求 (Academic Requirement)

毕业生应获得以下几个方面的知识和能力:

- (1) 掌握经济学的基本知识和基本理论。
- (2) 掌握经济学分析方法,并能运用到资源环境经济与金融等领域。
- (3) 具备运用经济学知识分析、解决经济问题的综合能力。
- (4) 了解经济学的理论前沿与发展动态。

Upon graduation, students are expected to have acquired the following knowledge and competencies:

- (1) A systematic command of the basic knowledge and fundamental theories of economics.
- (2) Proficiency in the analytical methods of economics and the ability to apply them to such fields as resource and environmental economics and finance.
- (3) The comprehensive ability to analyze and address economic issues using economic knowledge and methods.
- (4) An understanding of the frontiers, major developments, and evolving trends in economic theory and practice.

四、主干学科 (Main disciplines)

应用经济学。

Applied Economics

五、学制与学位 (Length of Schooling and Degree)

学制四年。学生修满规定的最低毕业学分,达到毕业要求后,授予经济学学士学位。

The standard duration of study is four years. Students who complete the prescribed minimum number of credits and satisfy all graduation requirements shall be awarded the degree of Bachelor of Economics.

六、核心课程 (Core Courses)

专业核心课程: 统计学、计量经济学、财政学、金融学、经济史、经济思想史、当代中国经济、资本论选读、矿产品国际贸易、资源环境经济学、保险学、证券投资理论与实务等。

实践课程: 计量经济学实验、证券投资实务、教学实习、专业实习、毕业论文等。

Core Courses: Statistics, Econometrics, Public Finance, Finance, Economic History, History

of Economic Thought, Contemporary Chinese Economy, Selected Readings from Capital, International Trade in Mineral Products, Resource and Environmental Economics, Insurance, Securities Investment Theory and Practice.

Practical Components: Econometrics Laboratory, Securities Investment Practice, Teaching Practicum, Professional Internship, Graduation Thesis.

七、最低毕业总学分要求及学分分配 (Minimum Required Credits and Distribution)

课程模块 Course Module	课程类别 Course Classification	学时数 Hours	学分 Credits	学 期 Semester											
				1	2	1 夏	3	4	2 夏	5	6	3 夏	7	8	
通识教育 Liberal Education	通识教育必修课程 Required Courses of General Education	746	42	13.25	14.25		4.25	4.25		3.25	1.25	1	0.25	0.25	
	通识教育选修课程 Selective Courses of General Education	160	10												
专业教育 Professional Education	学科基础课程 Disciplinary Fundamental Courses	568	35.5	11	13		8.5	3							
	专业核心课程 Specialized Core Courses	480	30		2		9	7		8	4				
	专业拓展课程 Specialized Development Courses	160	10				2	8		6	2				
实践教育 Practical Education	课程实践 Course Practice	12 周 +92 学时	22	2		2		1	4	1		6		6	
	课外实践 Extracurricular Practice	96	6												
必修课总学分 Required Course Credits				129.5											
选修课总学分 Elective Course Credits				26											
最低毕业总学分 Total Credits				155.5											

八、课程设置 (Curriculum)

1、通识教育必修课程(Required Courses of General Education): 746 学时(746 Hours), 42 学分(42 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
GR041002	计 算 机 语 言 程 序 设 计 Computer Language Programming	64	4	32	32		考试 Exam	2	
GR041011	人 工 智 能 概 论 Introduction of Artificial Intelligence	32	2	16	16		考试 Exam	1	
GR081067	大 学 英 语 素 质 拓 展 课 Competence-oriented Education for College English	32	2				考试 Exam	2	
GR081071	大 学 英 语 (1) College English(1)	64	4	64			考试 Exam	1	
GR081072	大 学 英 语 (2) College English(2)	32	2				考试 Exam	2	
GR141005	体 育 (1)(系 列 课 程) Physical Education(1)	32	1				考试 Exam	1	
GR141006	体 育 (2)(系 列 课 程) Physical Education(2)	32	1				考试 Exam	2	
GR142007	体 育 (3)(系 列 课 程) Physical Education(3)	32	1				考试 Exam	3	
GR142008	体 育 (4)(系 列 课 程) Physical Education(4)	32	1				考试 Exam	4	
GR181008	中 国 近 现 代 史 纲 要 Essentials of Modern Chinese History	48	3	48			考试 Exam	2	
GR181009	思 想 道 德 与 法 治 Ideological morality and rule of law	48	3				考试 Exam	1	
GR181013	形 势 与 政 策 (1) Situation and Policy Education(1)	4	0.25	4			考查 Term Paper	1	

GR181014	形 势 与 政 策 (2) Situation and Policy(2)	4	0.25				考查 Term Paper	2	
GR181015	形 势 与 政 策 (3) Situation and Policy(3)	4	0.25				考查 Term Paper	3	
GR181016	形 势 与 政 策 (4) Situation and Policy(4)	4	0.25				考查 Term Paper	4	
GR181017	形 势 与 政 策 (5) Situation and Policy(5)	4	0.25				考查 Term Paper	5	
GR181018	形 势 与 政 策 (6) Situation and Policy(6)	4	0.25				考查 Term Paper	6	
GR181019	形 势 与 政 策 (7) Situation and Policy(7)	4	0.25				考查 Term Paper	7	
GR181020	形 势 与 政 策 (8) Situation and Policy(8)	4	0.25				考查 Term Paper	8	
GR182014	马 克 思 主 义 基 本 原 理 The Fundamental Principles of Marxism	48	3				考试 Exam	3	
GR182022	习 近 平 新 时 代 中 国 特 色 社 会 主 义 思 想 概 论 An Introduction to Xi Jinping Thought on Socialism with Chinese	48	3				考试 Exam	5	
GR182024	毛 泽 东 思 想 和 中 国 特 色 社 会 主 义 理 论 体 系 概 论 Introduction to Mao Zedong Thoughts and Theoretical System of the Chinese Characteristic Socialism	32	2	32			考试 Exam	4	
GR301004	大 学 生 职 业 生 涯 规 划 与 就 业 指 导 (1) Career Planning and Employment Guidance for University Students(1)	20	1	16	4		考试 Exam	2	
GR301005	大 学 生 心 理 素 质 教 育 (1) Mental Health(1)	16	1	16			考查 Term Paper	1	
GR301024	劳 动 教 育 与 双 创 实 践 (1) Labor Education and Innovation and	16	1	16			考查 Term Paper	2	

	Entrepreneurship Practice(1)								
GR303005	大学生职业生涯规划与就业指导(2) Career Planning and Employment Guidance for University Students(2)	18	1	12	6		考试 Exam	6	
GR303006	大学生心理素质教育(2) Mental Health(2)	16	1	16			考查 Term Paper	4	
GR303025	劳动教育与双创实践(2) Labor Education and Innovation and Entrepreneurship Practice(2)	16	1		16		考查 Term Paper	3 夏	
GR311601	军事理论 Military Theory	36	2	36			考试 Exam	1	
总计 Total		746	42	308	74				

2、通识教育选修 (Selective Courses of General Education): 160 学时 (160 Hours), 10 学分 (10 Credits)

序号 No.	课程类别 Courses Classification	课程名称 Courses Name	学分 Credits	考核方式 Assessment	开课学期 Semester	备注 Notes
1	人文社科类 (含在线课程) Humanities and Social Sciences Courses (Inc. Online Courses)	见附件 1	6	考查 Term paper	2-8	5 个类别中选修 6 个学分, 其中国家安全教育 1 学分、新生研 讨课 1 学分均为必选, 其他合计 4 学分。
2	自然科学类 (含在线课程) Natural Science Courses (Inc. Online Courses)	见附件 2		考查 Term paper	2-8	
3	生态文明类 (自然文化、碳中和) Ecological Civilization Courses (Natural Culture、 Carbon-Neutral)	见附件 3		考查 Term paper	2-8	

4	体育与健康类 Sports and Health Courses	见附件 4		考查 Term paper	2-8	
5	新生研讨课程 Freshman Seminar	见附件 5		考查 Term paper	1-2	
6	创新创业教育类（含在线课程） Innovation and Entrepreneurship Courses (Inc. Online Courses)	见附件 6	2	考查 Term paper	2-8	
7	审美与艺术类 Aesthetics and Art Courses	见附件 7	2	考查 Term paper	2-8	
总计 Total			10			

3、学科基础课程(Disciplinary Fundamental Courses)：568 学时(568 Hours)，35.5 学分(35.5 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
DR071057	经 济 学 原 理 Principles of Economics	48	3	48			考试 Exam	2	
DR071201	信 息 检 索 与 数 据 分 析 Information Retrieval & Data Analysis	32	2	16	16		考试 Exam	2	
DR071602	习 近 平 经 济 思 想 概 论 Introduction to Xi Jinping Economic Thought	32	2	32			未知	1	
DR071603	管 理 学 Management	32	2				考试 Exam	1	

DR071605	经 济 学 专 业 导 论 Introduction to economics	16	1				考查 Term Paper	1	
DR071612	会 计 学 Accounting	32	2				考试 Exam	2	
DR072200	微 观 经 济 学 Intermediate Microeconomics	48	3	48			考试 Exam	3	
DR072201	宏 观 经 济 学 Intermediate Macroeconomics	48	3	48			考试 Exam	4	
DR191001	高 等 数 学 A(1) Higher Mathematics A(1)	96	6	96			考试 Exam	1	
DR191002	高 等 数 学 A(2) Higher Mathematics A(2)	96	6	96			考试 Exam	2	
DR192006	概 率 论 与 数 理 统 计 Probability and Statistics	48	3	48			考试 Exam	3	
DR192605	线 性 代 数 A Linear Algebra A	40	2.5	40			考试 Exam	3	
总计 Total		568	35.5	472	16				

4、专业核心课程(Specialized Core Courses)：480 学时(480 Hours)，30 学分(30 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
DR072058	统 计 学 A Statistics A	48	3	36	12		考试 Exam	3	
DR072229	金 融 学 B Finance B	32	2				考试 Exam	3	
DR073063	计 量 经 济 学 Econometrics	48	3	40	8		考试 Exam	4	
SR072066	证 券 投 资 理 论 与 实 务 Securities Investment	32	2	28	4		考试 Exam	4	

SR072067	经 济 学 专 业 英 语 Special English for Economics	32	2	32			考试 Exam	2	
SR072177	矿 产 品 国 际 贸 易 International Trade o Mineral Products	32	2				考试 Exam	3	
SR072188	经 济 思 想 史 The evolution of economic thought	32	2				考试 Exam	5	
SR072618	财 政 学 Public Finance	32	2				考试 Exam	4	
SR072647	政 治 经 济 学 Political Economics	32	2				考试 Exam	3	
SR073075	资 源 环 境 经 济 学 Resources and Environmental Economics	32	2	26	6		考试 Exam	5	
SR073076	保 险 学 Insurance	32	2	32			考试 Exam	6	
SR073189	经 济 史 Economic History	32	2				考试 Exam	5	
SR073190	资 本 论 选 读 Introduction to Das Kapital	32	2				考试 Exam	5	
SR073191	当 代 中 国 经 济 Contemporary Chinese economy	32	2				考查 Term Paper	6	
总计 Total		480	30	194	30				

5、专业拓展课程(Specialized Development Courses)：160 学时(160 Hours)，10 学分(10 Credits) 至少选修 10 学分

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
DR072064	博 弈 论 与 信 息 经 济 学 Game Theory and Information Economics	32	2	32			考试 Exam	4	

SR072640	数 字 经 济 概 论 Introduction to the Digital Economy	32	2				考试 Exam	3	
SR073069	能 源 经 济 学 Energy Economics	32	2	32			考试 Exam	5	
SR073195	区 域 经 济 学 Regional Economics	32	2				考试 Exam	6	
SS072203	经 济 法 B Economic Law B	32	2				考试 Exam	4	
SS072659	金 融 大 数 据 与 机 器 学 习 Financial Big Data and Machine Learning	32	2				考查 Term Paper	4	
SS072661	矿 业 投 融 资 Mining Investment and Financing	32	2				考试 Exam	4	
SS073204	产 业 经 济 学 Industrial Economics	32	2				考试 Exam	5	
SS073655	国 际 矿 业 金 融 管 理 International Mining Finance Management	32	2				考试 Exam	5	
总计 Total		160	10	64					

6、课程实践 (Course Practice)：12 周+92 学时 (12 weeks and 92 Hours)，22 学分 (22 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR072079	教 学 实 习 Teaching Practice	4 周	4		4		考查 Term Paper	2 夏	
PR072694	证 券 投 资 实 务 Securities Investment Practice	24	1				考试 Exam	4	
PR073080	专 业 实 习 Professional Practice	6 周	6		6		考查 Term Paper	3 夏	

PR073687	计 量 经 济 学 实 验 Econometric Experiment	24	1				考试 Exam	5	
PR074682	毕 业 论 文 (经 济 学) Graduation Thesis	12	6				考查 Term Paper	8	
PR181010	思 想 政 治 社 会 实 践 Political Social Practice	32	2		32		考查 Term Paper	1 夏	
PR311602	军 事 技 能 训 练 Military Training	2 周	2				考查 Term Paper	1	
总计 Total		12 周 +92 学 时	22		42				

7、课外实践 (Extracurricular Practice): 6 学分 (6 Credits)

包括主题教育活动、社会实践、志愿服务、勤工助学、学科竞赛、文体活动、创新创业活动、劳动实践等，其学分的认定按照教务处相关规定执行。

Extracurricular practice include Theme Education, Social Practice, Volunteer Service, Work-study Program, Discipline Competition, Cultural and Sports Activities, Innovative and Entrepreneurial Activities, Labor Practice and so on. The recognition of the credits for extracurricular practice shall be implemented according to the regulations of Academic Affairs Office.

法学专业培养方案

Undergraduate Program in Law

一、专业培养目标（Academic Objectives）

本专业坚持立德树人、德法兼修，培养德才兼备，具有扎实的法学专业理论基础、熟练的法律职业技能与合理的复合型知识结构，具备依法执政、科学立法、严格执法、公正司法以及高效优质法律服务能力与创新创业能力，系统掌握并自觉坚持中国特色社会主义法治体系的复合型、应用型、创新型法治人才。

我校法学专业主动适应经济社会发展与现代科技变革需要，依托学校地学学科优势与办学特色，开设地学相关、矿产资源法及人工智能与法律交叉融合课程，培养兼具扎实法律专业能力、矿产行业知识与人工智能素养的复合型法治人才，以满足法律职业专业化、智能化发展要求。毕业生能够胜任传统法律实务、矿产行业法律事务等工作，并具备处理智慧司法、数据合规、算法治理等新兴领域法律问题的基本能力。

二、毕业要求（Academic Requirement）

本专业学生通过系统学习法学、地学及人工智能相关基础知识与理论，接受法学思维、法律实务及科技应用的基本训练，应达到下列要求：

1. 价值素养

热爱社会主义祖国，拥护中国共产党的领导，掌握中国特色社会主义理论体系，牢固树立正确的世界观、人生观、价值观，具备良好的职业道德与社会责任感。

2. 思维与方法

掌握法学专业的思维方法和研究方法，具备良好的人文素养、科学素养与计算思维，能融合多学科视角分析和解决复杂法律问题。

3. 知识结构

掌握扎实、系统的法学专业核心知识；

了解与法学相关的地学、矿产资源管理基础知识；

理解人工智能基本原理、关键技术及其在社会治理、司法实践、法律服务等领域的应用场景与伦理法律问题；

具有较好的外语沟通能力和较高的信息技术应用水平。

4. 核心能力

学习与信息整合能力：能够有效检索、获取和利用中外文法学、地学及人工智能相关文献与数据资源，持续更新知识体系。

问题分析与解决能力：能够运用法学理论、地学常识及人工智能相关知识，识别、分析和处理各类法律实务问题，特别是涉及科技应用、矿产资源、数据治理等复杂情境下的法律挑战。

5. 实践与创新能力

具备法律实务操作技能，能在实践中运用智能工具辅助法律研究、文书生成、证据分

析等工作；具备一定的跨学科创新意识，能够参与法律科技项目或开展法学与人工智能交叉领域的初步研究。

6. 沟通与协作能力

能够在多元团队中进行有效沟通与合作，具备向不同背景对象阐释法律与科技交叉问题的表达能力。

三、主干学科（Main disciplines）

法学（030101K）。

四、学制与学位（Length of Schooling and Degree）

学制四年。学生学完教学计划规定的全部课程，考核合格，并通过论文答辩，准予毕业，授予法学学士学位。

五、核心课程（Core Courses）

本专业的核心课程：习近平法治思想概论、宪法、法理学、法律职业伦理、刑法、民法、刑事诉讼法、民事诉讼法、行政法与行政诉讼法、国际法、国际私法、国际经济法、经济法、商法、知识产权法、生态环境法、矿产勘查学、矿产资源法、机器学习方法与应用、人工智能法等。

本专业的主要实践性教学环节：教学实习、专业实习、模拟法庭、法律诊所、毕业实习等。

Undergraduate Programme in Law

I. Academic Objectives

Our major adheres to fostering virtue through education and integrating morality with the rule of law, cultivates interdisciplinary, application-oriented and innovative legal professionals with both moral integrity and professional competence, who possess solid professional theoretical foundation, skilled professional expertise and a sound interdisciplinary knowledge structure, who are capable of exercising power lawfully, enacting laws scientifically, enforcing laws strictly, administering justice impartially, as well as providing effective and high-quality legal services, who possess the capacity for innovation, entrepreneurship and creativity and who systematically master and consciously uphold the socialist legal system with Chinese characteristics.

Proactively adapting to the needs of economic and social development and modern scientific and technological transformation and relying on the university's strengths in geoscience disciplines and its distinctive educational characteristics, the law major of our university offers interdisciplinary courses in geosciences, mineral law, AI & Law, cultivates interdisciplinary legal professionals who possess solid legal competence, mineral industry knowledge, and AI literacy to meet the requirements of the professionalized and intelligent development of the legal profession. Graduates are competent for work in traditional legal practice, legal affairs in the mineral industry, and other related field., and will possess the basic abilities to handle legal issues in emerging fields such as smart justice, data compliance, and algorithm governance.

II. Academic Requirement

1. Values and Ethics

Love the socialist motherland, uphold the leadership of the Communist Party of China, master the theoretical system of socialism with Chinese characteristics, firmly establish correct worldviews, outlooks on life, and values, and possess sound professional ethics and a strong sense of social responsibility.

2. Thinking and Methodology

Master the thinking and research methodologies specific to the legal profession, possess sound humanistic literacy, scientific literacy, and computational thinking, be able to integrate multidisciplinary perspectives to analyze and solve complex legal issues.

3. Knowledge Structure

Master a solid and systematic understanding of core legal knowledge;

Understand foundational knowledge of geosciences and mineral resources management related to law;

Understand the fundamental principles and key technologies of artificial intelligence, as well as their application scenarios and associated ethical and legal issues in social governance, judicial practice, and legal services;

Possess good foreign language communication skills and a high level of proficiency in

information technology applications.

4. Core Competencies

Learning and Information Integration Ability: be able to effectively retrieve, acquire, and utilize literature and data resources related to law, geoscience and artificial intelligence in both Chinese and foreign languages, continuously update the knowledge system.

Problem Analysis and Solving Ability: be able to apply legal theories, geoscientific common sense, and AI-related knowledge to identify, analyze, and handle various legal practical issues—especially legal challenges in complex scenarios involving technological applications, mineral resources, and data governance.

5. Practice and Innovation Capabilities

Possess legal practice operational skills, be able to use intelligent tools to assist in legal research, document generation, evidence analysis and other tasks in practice, possess interdisciplinary innovation awareness, be capable of participating in legal technology projects or conducting preliminary research in the interdisciplinary field of law and artificial intelligence.

6. Communication and Collaboration Ability

Be able to communicate and cooperate effectively in a diverse team and possess the ability to explain interdisciplinary issues of legal and technology to audiences with different backgrounds.

III. Main disciplines

Law (030101K).

IV. Length of Schooling and Degree

The length of schooling is four years. Students who have completed all courses specified in the teaching program, passed all examinations and the thesis defense shall be permitted to graduate and be awarded the Bachelor of Laws degree.

V. Core Courses

The core courses of the major include introduction to Xi Jinping's thought of rule of law, constitutional law, Jurisprudence, Legal Professional Ethics, criminal law, civil law, criminal procedure law, civil procedure law, administrative law and administrative procedure law, international law, international private law, international economic law, commercial law, and intellectual property law, Ecological and Environmental Law, Mineral Exploration, Mineral Resources Law, Machine Learning Methods and Applications, Artificial Intelligence Law, etc.

Main practical teaching components of this major include: orientation Internship, professional internship, mock court, legal clinic, graduation internship, etc.

六、最低毕业总学分要求及学分分配 (Minimum Required Credits and Distribution)

课程模块 Course Module	课程类别 Course Classification	学时数 Hours	学分 Credits	学 期Semester											
				1	2	1夏	3	4	2夏	5	6	3夏	7	8	
通识教育 Liberal Education	通识教育必修课程 Required Courses of General Education	682	38	13.25	10.25		4.25	4.25		3.25	1.25	1	0.25	0.25	
	通识教育选修课程 Selective Courses of General Education	160	10												
专业教育 Professional Education	学科基础课程 Disciplinary Fundamental Courses	224	14	6	4			2			2				
	专业核心课程 Specialized Core Courses	688	43	5	3		9	12		11	3				
	专业拓展课程 Specialized Development Courses	数据法模块	160	10		3			2			5			
		矿产资源法模块	192	12		4			3			5			
实践教育 Practical Education	课程实践 Course Practice	12周 +140学时	26	2		2				4	3	3	6	6	
	课外实践 Extracurricular Practice	96	6												
必修课总学分 Required Course Credits				121											
选修课总学分 Elective Course Credits				38.5											
最低毕业总学分 Total Credits				159.5											

七、课程设置 (Curriculum)

1、通识教育必修课程(Required Courses of General Education)：682学时(682 Hours)，38学分(38 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
GR041011	人工智能概论 Introduction of Artificial Intelligence	32	2	16	16		考试 Exam	1	
GR081067	大学英语素质拓展课 Competence-oriented Education for College English	32	2				考试 Exam	2	
GR081071	大学英语(1) College English(1)	64	4	64			考试 Exam	1	
GR081072	大学英语(2) College English(2)	32	2				考试 Exam	2	
GR141005	体育(1)(系列课程) Physical Education(1)	32	1				考试 Exam	1	
GR141006	体育(2)(系列课程) Physical Education(2)	32	1				考试 Exam	2	
GR142007	体育(3)(系列课程) Physical Education(3)	32	1				考试 Exam	3	
GR142008	体育(4)(系列课程) Physical Education(4)	32	1				考试 Exam	4	
GR181008	中国近现代史纲要 Essentials of Modern Chinese History	48	3	48			考试 Exam	2	
GR181009	思想道德与法治 Ideological morality and rule of law	48	3				考试 Exam	1	
GR181013	形势与政策(1) Situation and Policy Education(1)	4	0.25	4			考查 Term Paper	1	
GR181014	形势与政策(2) Situation and Policy(2)	4	0.25				考查 Term Paper	2	
GR181015	形势与政策(3)	4	0.25				考查	3	

	Situation and Policy(3)						Term Paper		
GR181016	形势与政策(4) Situation and Policy(4)	4	0.25				考查 Term Paper	4	
GR181017	形势与政策(5) Situation and Policy(5)	4	0.25				考查 Term Paper	5	
GR181018	形势与政策(6) Situation and Policy(6)	4	0.25				考查 Term Paper	6	
GR181019	形势与政策(7) Situation and Policy(7)	4	0.25				考查 Term Paper	7	
GR181020	形势与政策(8) Situation and Policy(8)	4	0.25				考查 Term Paper	8	
GR182014	马克思主义基本原理 The Fundamental Principles of Marxism	48	3				考试 Exam	3	
GR182022	习近平新时代中国特色社会主义思想概论 An Introduction to Xi Jinping Thought on Socialism with Chinese	48	3				考试 Exam	5	
GR182024	毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thoughts and Theoretical System of the Chinese Characteristic Socialism	32	2	32			考试 Exam	4	
GR301004	大学生职业生涯规划与就业指导(1) Career Planning and Employment Guidance for University Students(1)	20	1	16	4		考试 Exam	2	
GR301005	大学生心理素质教育(1) Mental Health(1)	16	1	16			考查 Term Paper	1	
GR301024	劳动教育与双创实践(1) Labor Education and Innovation and Entrepreneurship Practice(1)	16	1	16			考查 Term Paper	2	
GR303005	大学生职业生涯规划与就业指导(2) Career Planning and Employment	18	1	12	6		考试 Exam	6	

	Guidance for University Students(2)								
GR303006	大学生心理素质教育(2) Mental Health(2)	16	1	16			考查 Term Paper	4	
GR303025	劳动教育与双创实践(2) Labor Education and Innovation and Entrepreneurship Practice(2)	16	1		16		考查 Term Paper	3夏	
GR311601	军事理论 Military Theory	36	2	36			考试 Exam	1	
总计 Total		682	38	276	42				

2、通识教育选修 (Selective Courses of General Education) : 160学时 (160 Hours), 10学分 (10 Credits)

序号 No.	课程类别 Courses Classification	课程名称 Courses Name	学分 Credits	考核方式 Assessment	开课学期 Semester	备注 Notes
1	人文社科类 (含在线课程) Humanities and Social Sciences Courses (Inc. Online Courses)	见附件1	6	考查 Term paper	2-8	5个类别中选修6个学分, 其中国家安全教育1学分、新生研讨 课1学分均为必选, 其他合计4学分。
2	自然科学类 (含在线课程) Natural Science Courses (Inc. Online Courses)	见附件2		考查 Term paper	2-8	
3	生态文明类 (自然文化、碳中和) Ecological Civilization Courses (Natural Culture、 Carbon-Neutral)	见附件3		考查 Term paper	2-8	
4	体育与健康类 Sports and Health Courses	见附件4		考查 Term paper	2-8	

5	新生研讨课程 Freshman Seminar	见附件5		考查 Term paper	1-2	
6	创新创业教育类（含在线课程） Innovation and Entrepreneurship Courses (Inc. Online Courses)	见附件6	2	考查 Term paper	2-8	
7	审美与艺术类 Aesthetics and Art Courses	见附件7	2	考查 Term paper	2-8	
总计 Total			10			

3、学科基础课程(Disciplinary Fundamental Courses)：224学时(224 Hours)，14学分(14 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR070024	法学专业导论 Introduction to Law	16	1				考查 Term Paper	1	
DR071004	法理学 Jurisprudence	48	3	48			考试 Exam	1	
DR071005	宪法学 Constitutional Law	32	2	32			考试 Exam	1	
DR071007	中国法制史 Chinese Legal History	32	2	32			考试 Exam	2	
DR071201	信息检索与数据分析 Information Retrieval & Data Analysis	32	2	16	16		考试 Exam	2	
DR072010	法学专业英语 Legal English	32	2	32			考试 Exam	4	
DR073072	法律职业伦理 Ethics of Legal Profession	32	2	32			考试 Exam	6	

总计 Total		224	14	192	16				
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4、专业核心课程(Specialized Core Courses)：688学时(688 Hours)，43学分(43 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR071006	民法学总论 Civil Law (General Theory)	48	3	44	4		考试 Exam	1	
DR072008	刑法学总论 Criminal Law (General Theory)	48	3	48			考试 Exam	3	
DR072011	刑法学分论 Criminal Law (Specific Provisions)	48	3	48			考试 Exam	4	
DR072012	民事诉讼法 Civil Procedure Law	48	3	42	6		考试 Exam	4	
DR072013	刑事诉讼法 Criminal Procedure Law	48	3	42	6		考试 Exam	4	
DR073016	国际私法 International Private Law	48	3	48			考试 Exam	5	
DR073019	国际法 International Law	32	2	32			考试 Exam	5	
DR073149	行政法与行政诉讼法 Administrative Law and Administrative Procedure Law	48	3	48			考试 Exam	5	
SR071207	习近平法治思想概论 Introduction to Xi Jinping's Thought of Rule of Law	32	2				考查 Term Paper	1	
SR071630	民法分论(一) Civil Law (Specific Provisions I)	48	3				考试 Exam	2	
SR072021	知识产权法 Intellectual Property Law	48	3	48			考试 Exam	3	
SR072209	商法学 Commercial Law	48	3				考试 Exam	4	

SR072629	民法分论(二) Civil Law (Specific Provisions II)	48	3				考试 Exam	3	
SR073025	经济法 Economic Law	48	3	48			考试 Exam	5	
SR073026	国际经济法 International Economic Law	48	3	48			考试 Exam	6	
总计 Total		688	43	496	16				

5、专业拓展课程(Specialized Development Courses)：192学时(192 Hours)，12学分(12 Credits)

矿产资源法模块()

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
方向选修课程									
DR011036	地球科学概论 Geoscience	64	4	32	32		考试 Exam	2	
DR012129	矿产勘查学A Introduction to Mineral Exploration	48	3				考试 Exam	4	
SS073660	矿产资源法原理与实务 Principles and Practice of Mineral Resources Law	32	2				考试 Exam	6	
SS073665	生态环境法 Ecological and Environmental Law	48	3				考试 Exam	6	
总计 Total		192	12	32	32				

6、专业拓展课程(Specialized Development Courses)：160学时(160 Hours)，10学分(10 Credits) 0

数据法模块()

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
方向选修课程									
SR042613	机器学习方法与应用 Machine Learning Methods and Applications	32	2				考试 Exam	4	
SR043616	大模型原理与地学应用 Principles and Geoscience Applications of Large Language Model	32	2				考试 Exam	6	
SS071667	数据法原理与实务 Principles and Practice of Data Law	48	3				考试 Exam	2	
SS073663	人工智能法原理与实务 Principles and Practice of Artificial Intelligence Law	48	3				考试 Exam	6	
总计 Total		160	10						

7、课程实践 (Course Practice): 12周+140学时 (12 weeks and 140 Hours), 26学分 (26 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR072033	教学实习 Teaching Practice	4周	4		4		考查 Term Paper	2夏	
PR073031	法律诊所 Legal Clinic	48	3				考查 Term Paper	6	
PR073032	模拟法庭 Moot Court	48	3		48		考查 Term Paper	5	
PR073034	专业实习 Professional Practice	6周	6		6		考查 Term Paper	3夏	
PR074679	毕业论文(法学) Graduation Thesis	12	6				考查 Term Paper	8	

PR181010	思想政治社会实践 Political Social Practice	32	2		32		考查 Term Paper	1夏	
PR311602	军事技能训练 Military Training	2周	2				考查 Term Paper	1	
总计 Total		12周 +140 学时	26		90				

8、课外实践（Extracurricular Practice）：6学分（6 Credits）

包括主题教育活动、社会实践、志愿服务、勤工助学、学科竞赛、文体活动、创新创业活动、劳动实践等，其学分的认定按照教务处相关规定执行。

Extracurricular practice include Theme Education, Social Practice, Volunteer Service, Work-study Program, Discipline Competition, Cultural and Sports Activities, Innovative and Entrepreneurial Activities, Labor Practice and so on. The recognition of the credits for extracurricular practice shall be implemented according to the regulations of Academic Affairs Office.

经济学+资源勘查工程双学位专业培养方案

Undergraduate Dual-Degree Program in Economics and Resource Prospecting Engineering

一、专业简介 (Major Introduction)

在全球资源格局深度调整与国家资源安全保障需求日益紧迫的双重背景下，统筹资源开发与经济发展已成为支撑社会主义现代化建设的战略基石。资源勘查工程与经济学的高效融合，是提升资源战略决策科学性、推动矿业可持续转型的关键引擎，也是服务“碳中和”目标下矿产资源精准供给与高效配置的重要路径。为此，中国地质大学（北京）设立“经济学+资源勘查工程”双学位专业，深度整合校内优势资源，立足应用经济学学科知识体系，结合中国地质大学的资源勘查工程优势学科，旨在培养既精通资源勘查技术、又具备经济分析能力的复合型战略人才。

本专业秉承“学科交叉、产教融合”的培养理念，构建“经济+工程”双轮驱动的课程体系。一方面，通过微观经济学、资源与环境经济学、矿业金融与投资等经济管理课程的系统训练，学生将掌握资源价值评估、市场风险分析和产业政策研判的核心能力，形成对全球资源供需格局与矿业资本运作的深刻洞察。另一方面，通过矿床学、矿产勘查理论与方法等工程课程的学习，学生将掌握矿产资源形成机理、探测技术与资源评价方法，具备从地质调查到资源储量评估的全链条工程技术基础。通过两类知识体系的有机融合与创新实践，本专业致力于培养具有系统思维、国际视野和跨学科解决复杂问题能力的高层次复合型人才，使其未来能够在自然资源管理部门、国际矿业企业、金融机构及科研机构中胜任资源经济规划、勘查项目投资决策、矿业政策制定等关键岗位，为国家资源安全与可持续发展提供坚实的人才与智力支撑。

Against the dual backdrop of profound adjustments in the global resource landscape and the increasingly urgent demand for national resource security, the coordination of resource development and economic growth has become a strategic cornerstone for supporting socialist modernization. The efficient integration of Resource Prospecting Engineering and Economics serves as a key engine for enhancing the scientific rigor of strategic decision-making and driving the sustainable transformation of the mining industry. Furthermore, it provides a vital pathway for the precise supply and efficient allocation of mineral resources under the "Carbon Neutrality" objective.

By deeply integrating the university's premier resources, the "Economics + Resource Prospecting Engineering" dual-degree program builds upon the knowledge system of Applied Economics and leverages the university's institutional strength in Resource Prospecting Engineering. It aims to cultivate interdisciplinary strategic talents who are both proficient in exploration technologies and equipped with robust economic analysis capabilities.

二、专业培养目标 (Academic Objectives)

本专业面向保障国家战略资源安全、服务经济高质量发展的社会需求，围绕培养

跨学科复合型人才的核心目标，致力于培养德、智、体、美、劳全面发展，适应国家资源战略与可持续发展需要，掌握扎实的经济学基础理论和系统的资源勘查工程专业知识，具备资源经济分析、勘查技术应用与综合管理能力，具有国际视野、创新精神和实践能力的复合型人才。学生毕业后可在政府部门、政策研究机构、金融机构、矿业企业及相关行业领域，从事资源经济评价、勘查项目管理、矿业投资分析、政策制定与咨询等工作。经过5年的实际工作锻炼，能够独立承担资源领域的经济分析与技术管理工作，或胜任中高层专业岗位的要求。具体目标包括：

(1) 构建“经济+工程”深度融合的复合型知识体系。使学生系统掌握扎实的经济学基础理论和资源勘查工程专业知识，理解资源的经济属性与技术逻辑，形成跨学科的知识结构与系统思维能力。

(2) 培养解决复杂资源问题的核心专业能力。培养学生具备资源经济分析、勘查技术应用与项目综合管理的实践能力，能够胜任资源评价、投资分析、勘查管理及政策咨询等专业性工作。

(3) 塑造具有战略视野与创新精神的行业素养。引导学生开拓国际视野，树立服务国家资源战略的使命感，并在实践中培育创新意识和可持续发展理念，适应行业变革与未来挑战。

(4) 实现从专业人才到行业骨干的职业发展目标。为学生奠定在政府部门、金融机构、矿业企业及相关机构发挥关键作用的职业基础，使其经过数年实践历练，能够独立承担重要技术经济管理工作，成长为行业中高层骨干或领军人才。

(5) 拓展跨界协作与国际化资源治理能力。培养学生具备在多学科团队和国际合作项目中有效沟通、协调与领导的能力，使其能适应全球化资源治理体系，在跨国矿业开发、国际资源政策协调等领域发挥专业作用。

This major is oriented toward the societal needs of safeguarding national strategic resource security and serving high-quality economic development. Centered on the core goal of cultivating interdisciplinary versatile talents, the program is committed to the comprehensive development of students—morally, intellectually, physically, aesthetically, and through labor. It aims to develop professionals who adapt to national resource strategies and sustainable development needs, possessing a solid foundation in economic theory and systematic knowledge of resource prospecting engineering. Graduates will possess capabilities in resource economic analysis, exploration technology application, and integrated management, along with a global perspective, innovative spirit, and practical skills. Upon graduation, students can pursue careers in government departments, policy research institutions, financial institutions, mining enterprises, and related sectors, engaging in resource economic evaluation, exploration project management, mining investment analysis, and policy formulation and consulting. After five years of practical professional experience, they are expected to independently undertake economic analysis and technical management in the resource field or meet the requirements of mid-to-high-level professional positions. Specific objectives include:

(1) Constructing an Interdisciplinary Knowledge System through the Deep Integration of "Economics and Engineering": To enable students to systematically master solid fundamental

theories of economics and professional knowledge of resource prospecting engineering, understand the economic attributes and technical logic of resources, and form a cross-disciplinary knowledge structure and systems-thinking capability.

(2) Cultivating Core Professional Competencies to Solve Complex Resource Issues: To develop students' practical abilities in resource economic analysis, exploration technology application, and integrated project management, enabling them to excel in professional tasks such as resource evaluation, investment analysis, exploration management, and policy consulting.

(3) Shaping Professional Literacy with Strategic Vision and Innovative Spirit: To guide students in broadening their international horizons, establishing a sense of mission to serve national resource strategies, and fostering innovation awareness and sustainable development concepts in practice to adapt to industry transformations and future challenges.

(4) Achieving Career Development Goals from Specialized Talent to Industry Backbone: To lay a professional foundation for students to play key roles in government departments, financial institutions, mining enterprises, and related organizations, so that after several years of practical experience, they can independently undertake important techno-economic management tasks and grow into mid-to-high-level backbones or leading talents in the industry.

(5) Expanding Cross-sector Collaboration and International Resource Governance Capabilities: To cultivate students' ability to effectively communicate, coordinate, and lead within multidisciplinary teams and international cooperation projects, enabling them to adapt to the global resource governance system and play professional roles in fields such as multinational mining development and international resource policy coordination.

三、毕业要求（Academic Requirement）

（1）职业道德与社会责任：恪守职业道德，具备服务国家资源安全战略的使命感，在资源开发与管理中自觉维护国家利益、生态安全和社会公正。

（2）科学精神与工程伦理：具备严谨求实的科学态度，在资源勘查与工程决策中遵循伦理规范，平衡经济效益、社会影响与环境保护。

（3）经济学知识体系：系统掌握微观经济学、宏观经济学、资源与环境经济学、产业经济学、金融学等核心理论，能运用经济学工具分析资源市场与政策。

（4）资源勘查工程知识体系：扎实掌握地质学、矿床学、勘查技术与方法、资源评价与管理等工程专业知识，具备矿产资源发现、评价与开发的工程技术基础。

（5）交叉学科融合能力：能够整合经济学理论与勘查工程知识，运用跨学科方法进行系统性分析与建模。

（6）工程解决方案设计与开发：能够基于经济可行性与技术合理性，设计资源勘查方案、开发流程优化策略或资源综合利用路径。

（7）市场经济机制设计能力：理解资源市场运行规律，具备设计或评估资源交易

机制、矿业权市场规则、绿色金融工具等的能力。

(8) 政策解读与优化能力：能够解读国家资源、能源、环境等相关政策，并参与政策评估、建议或优化设计，支持科学决策。

(9) 工程与社会环境协调意识：掌握绿色勘查技术、矿山生态修复、资源循环利用等相关知识，能够在工程实践中贯彻可持续发展理念。

(10) 项目管理与团队协作能力：具备矿产资源勘查项目或资源经济类项目的管理能力，能在跨学科、跨文化团队中有效协作与领导。

(11) 国际视野与资源治理能力：了解全球资源治理体系与国际矿业规则，具备参与国际合作、跨国资源开发与谈判的基本素养。

(12) 沟通表达与终身学习能力：能够以书面、口头及数字化方式清晰表达专业观点，具备持续跟踪学科前沿、适应行业变革的自主学习能力。

(1) Professional Ethics and Social Responsibility: To strictly abide by professional ethics, possess a sense of mission to serve national resource security strategies, and consciously safeguard national interests, ecological security, and social justice in resource development and management.

(2) Scientific Spirit and Engineering Ethics: To maintain a rigorous and pragmatic scientific attitude, follow ethical norms in resource prospecting and engineering decision-making, and balance economic benefits with social impact and environmental protection.

(3) Economics Knowledge System: To systematically master core theories including Microeconomics, Macroeconomics, Resource and Environmental Economics, Industrial Economics, and Finance; and to be capable of applying economic tools to analyze resource markets and policies.

(4) Resource Exploration Engineering Knowledge System: To gain a solid command of engineering expertise in Geology, Mineral Deposit Geology, exploration techniques and methods, and resource evaluation and management, providing a technical foundation for the discovery, evaluation, and development of mineral resources.

(5) Interdisciplinary Integration Capability: To be able to integrate economic theories with exploration engineering knowledge, utilizing cross-disciplinary methods for systematic analysis and modeling.

(6) Design and Development of Engineering Solutions: To be capable of designing resource prospecting schemes, development process optimization strategies, or comprehensive resource utilization pathways based on both economic feasibility and technical rationality.

(7) Market Economy Mechanism Design: To understand the operational laws of resource markets and possess the ability to design or evaluate resource trading mechanisms, mining rights market rules, and green finance instruments.

(8) Policy Interpretation and Optimization: To be able to interpret national policies

regarding resources, energy, and the environment, and participate in policy evaluation, recommendation, or optimization to support scientific decision-making.

(9) Coordination of Engineering, Society, and Environment: To master knowledge of green exploration technologies, mine ecological restoration, and resource recycling, and to implement sustainable development concepts in engineering practice.

(10) Project Management and Teamwork: To possess management capabilities for mineral exploration projects or resource economics projects, and to collaborate and lead effectively within multidisciplinary and cross-cultural teams.

(11) Global Perspective and Resource Governance: To understand the global resource governance system and international mining regulations, possessing the fundamental literacy required for international cooperation, transnational resource development, and negotiation.

(12) Communication, Expression, and Lifelong Learning: To be able to clearly express professional viewpoints through written, oral, and digital means, and to possess the self-directed learning capacity to continuously track disciplinary frontiers and adapt to industry transformations.

四、主干学科（Main disciplines）

应用经济学，地质资源与地质工程

Applied Economics, Geological Resources and Geological Engineering

五、学制与学位（Length of Schooling and Degree）

学制四年，学生修满规定的最低毕业学分，达到毕业要求后，授予经济学和工学双学士学位。

The length of schooling is four years of full-time study. Students who complete the required minimum credits for graduation and meet all graduation requirements will be awarded a dual Bachelor's degree in Economics and Engineering.

六、核心课程（Core Courses）

专业核心课程：政治经济学、金融学、会计学、统计学、矿产品国际贸易、资源环境经济学、证券投资理论与实务、矿床学、矿石学与矿相学、矿产勘查学、矿产经济与管理等、矿产资源项目技术经济评价、环境法与矿产资源法等。

特色的实践性教学环节：计量经济学实验、证券投资实务、北戴河地质认识实习、平泉地质教学实习、矿产勘查学课程设计、矿山基地资源勘查工程综合训练、经济学专业实习、毕业论文等。

Specialized Core Courses: Political Economy, Finance, Accounting, Statistics, International Trade in Mineral Products, Resource and Environmental Economics, Securities Investment, Ore Deposit Geology, Ore Petrology and Microscopy, and Mineral Prospecting and Exploration, Mineral Resources Economics & Management, Technical and Economic

Evaluation of Mineral Resource Projects, Laws of Environment and Mineral Resources.

Practice Courses: Experiments in Econometrics, Securities Investment Practice, Beidaihe Geological Field Internship (Introductory), Pingquan Geological Teaching Internship, Course Design for Mineral Exploration, Comprehensive Training in Resource Prospecting Engineering at Mining Bases, Economics Internship, and Graduation Thesis.

七、最低毕业总学分要求及学分分配 (Minimum Required Credits and Distribution)

课程模块 Course Module	课程类别 Course Classification	学时数 Hours	学分 Credits	学 期Semester											
				1	2	1夏	3	4	2夏	5	6	3夏	7	8	
通识教育 Liberal Education	通识教育必修课程 Required Courses of General Education	746	42	13.25	14.25		4.25	4.25		3.25	1.25	1	0.25	0.25	
	通识教育选修课程 Selective Courses of General Education	160	10												
专业教育 Professional Education	学科基础课程 Disciplinary Fundamental Courses	816	51	13.5	16		8.5	13							
	专业核心课程 Specialized Core Courses	448	28		2		9	2		10	4		1		
	专业拓展课程 Specialized Development Courses	240	15					8.5		23	15		8		
实践教育 Practical Education	课程实践 Course Practice	22周+84学时	22	2		4		1	4	1	2	4		6	
	课外实践 Extracurricular Practice	96	6												
必修课总学分 Required Course Credits				143											
选修课总学分 Elective Course Credits				31											
最低毕业总学分 Total Credits				174											

八、课程设置 (Curriculum)

1、通识教育必修课程(Required Courses of General Education): 746学时(746 Hours), 42学分(42 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
GR041002	计算机语言程序设计 Computer Language Programming	64	4	32	32		考试 Exam	2	
GR041011	人工智能概论 Introduction of Artificial Intelligence	32	2	16	16		考试 Exam	1	
GR081067	大学英语素质拓展课 Competence-oriented Education for College English	32	2				考试 Exam	2	
GR081071	大学英语(1) College English(1)	64	4	64			考试 Exam	1	
GR081072	大学英语(2) College English(2)	32	2				考试 Exam	2	
GR141005	体育(1)(系列课程) Physical Education(1)	32	1				考试 Exam	1	
GR141006	体育(2)(系列课程) Physical Education(2)	32	1				考试 Exam	2	
GR142007	体育(3)(系列课程) Physical Education(3)	32	1				考试 Exam	3	
GR142008	体育(4)(系列课程) Physical Education(4)	32	1				考试 Exam	4	
GR181008	中国近现代史纲要 Essentials of Modern Chinese History	48	3	48			考试 Exam	2	
GR181009	思想道德与法治 Ideological morality and rule of law	48	3				考试 Exam	1	
GR181013	形势与政策(1) Situation and Policy Education(1)	4	0.25	4			考查 Term Paper	1	
GR181014	形势与政策(2)	4	0.25				考查	2	

	Situation and Policy(2)						Term Paper		
GR181015	形势与政策(3) Situation and Policy(3)	4	0.25				考查 Term Paper	3	
GR181016	形势与政策(4) Situation and Policy(4)	4	0.25				考查 Term Paper	4	
GR181017	形势与政策(5) Situation and Policy(5)	4	0.25				考查 Term Paper	5	
GR181018	形势与政策(6) Situation and Policy(6)	4	0.25				考查 Term Paper	6	
GR181019	形势与政策(7) Situation and Policy(7)	4	0.25				考查 Term Paper	7	
GR181020	形势与政策(8) Situation and Policy(8)	4	0.25				考查 Term Paper	8	
GR182014	马克思主义基本原理 The Fundamental Principles of Marxism	48	3				考试 Exam	3	
GR182022	习近平新时代中国特色社会主义思想概论 An Introduction to Xi Jinping Thought on Socialism with Chinese	48	3				考试 Exam	5	
GR182024	毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thoughts and Theoretical System of the Chinese Characteristic Socialism	32	2	32			考试 Exam	4	
GR301004	大学生职业生涯规划与就业指导(1) Career Planning and Employment Guidance for University Students(1)	20	1	16	4		考试 Exam	2	
GR301005	大学生心理素质教育(1) Mental Health(1)	16	1	16			考查 Term Paper	1	
GR301024	劳动教育与双创实践(1) Labor Education and Innovation and Entrepreneurship Practice(1)	16	1	16			考查 Term Paper	2	
GR303005	大学生职业生涯规划与就业指导(2)	18	1	12	6		考试	6	

	Career Planning and Employment Guidance for University Students(2)						Exam		
GR303006	大学生心理素质教育(2) Mental Health(2)	16	1	16			考查 Term Paper	4	
GR303025	劳动教育与双创实践(2) Labor Education and Innovation and Entrepreneurship Practice(2)	16	1		16		考查 Term Paper	3夏	
GR311601	军事理论 Military Theory	36	2	36			考试 Exam	1	
总计 Total		746	42	308	74				

2、通识教育选修 (Selective Courses of General Education) : 160学时 (160 Hours), 10学分 (10 Credits)

序号 No.	课程类别 Courses Classification	课程名称 Courses Name	学分 Credits	考核方式 Assessment	开课学期 Semester	备注 Notes
1	人文社科类 (含在线课程) Humanities and Social Sciences Courses (Inc. Online Courses)	见附件1	6	考查 Term paper	2-8	5个类别中选修6个学分, 其中国家安全教育1学分、新生研讨 课1学分均为必选, 其他合计4学分。
2	自然科学类 (含在线课程) Natural Science Courses (Inc. Online Courses)	见附件2		考查 Term paper	2-8	
3	生态文明类 (自然文化、碳中和) Ecological Civilization Courses (Natural Culture、 Carbon-Neutral)	见附件3		考查 Term paper	2-8	
4	体育与健康类 Sports and Health Courses	见附件4		考查 Term paper	2-8	

5	新生研讨课程 Freshman Seminar	见附件5		考查 Term paper	1-2	
6	创新创业教育类（含在线课程） Innovation and Entrepreneurship Courses (Inc. Online Courses)	见附件6	2	考查 Term paper	2-8	
7	审美与艺术类 Aesthetics and Art Courses	见附件7	2	考查 Term paper	2-8	
总计 Total			10			

3、学科基础课程(Disciplinary Fundamental Courses)：816学时(816 Hours)，51学分(51 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR011036	地球科学概论 Geoscience	64	4	32	32		考试 Exam	2	
DR012039	综合地质学 Synthetic Geology	64	4	32	32		考试 Exam	4	
DR071057	经济学原理 Principles of Economics	48	3	48			考试 Exam	2	
DR071602	习近平经济思想概论 Introduction to Xi Jinping Economic Thought	32	2	32			未知	1	
DR071603	管理学 Management	32	2				考试 Exam	1	
DR071607	经济学资源勘查工程专业导论 Introduction to the Economics &	16	1				考查 Term Paper	1	

	Resource Exploration Engineering								
DR072200	微观经济学 Intermediate Microeconomics	48	3	48			考试 Exam	3	
DR072201	宏观经济学 Intermediate Macroeconomics	48	3	48			考试 Exam	4	
DR073063	计量经济学 Econometrics	48	3	40	8		考试 Exam	4	
DR191001	高等数学A(1) Higher Mathematics A(1)	96	6	96			考试 Exam	1	
DR191002	高等数学A(2) Higher Mathematics A(2)	96	6	96			考试 Exam	2	
DR191608	大学物理B(1) College PhysicsB(1)	48	3	48			考试 Exam	2	
DR191611	大学化学B College Chemistry B	40	2.5	40			考试 Exam	1	
DR192006	概率论与数理统计 Probability and Statistics	48	3	48			考试 Exam	4	
DR192605	线性代数A Linear Algebra A	40	2.5	40			考试 Exam	3	
DR192609	大学物理B(2) College PhysicsB(2)	48	3	48			考试 Exam	3	
总计 Total		816	51	696	72				

4、专业核心课程(Specialized Core Courses)：448学时(448 Hours)，28学分(28 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
DR071612	会计学 Accounting	32	2				考试 Exam	2	
DR072058	统计学 A Statistics A	48	3	36	12		考试 Exam	3	

DR072229	金融学 B Finance B	32	2				考试 Exam	3	
SR013051	矿石学与矿相学 Ore Petrology and Microscopy	48	3	16	32		考试 Exam	5	
SR072066	证券投资理论与实务 Securities Investment	32	2	28	4		考试 Exam	4	
SR072177	矿产品国际贸易 International Trade o Mineral Products	32	2				考试 Exam	3	
SR072647	政治经济学 Political Economics	32	2				考试 Exam	3	
SR073075	资源环境经济学 Resources and Environmental Economics	32	2	26	6		考试 Exam	5	
SR073178	矿产资源项目技术经济评价 Technical and Economic Evaluation of Mineral Resource Projects	32	2				考试 Exam	5	
SR073626	矿产经济与管理 Mineral Resources Economics & Management	32	2				考查 Term Paper	6	
SR073627	矿产勘查学 Mineral Prospecting and Exploration	32	2				考试 Exam	6	
SR073628	矿床学 Ore Deposit Geology	48	3				考试 Exam	5	
SR074001	环境法与矿产资源法 Environmental Law and Mineral Resources Law	16	1	16			考查 Term Paper	7	
总计 Total		448	28	122	54				

5、专业拓展课程(Specialized Development Courses)：240学时(240 Hours)，15学分(15 Credits) 至少选修15学分

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时	实验学时 Experiment	线上学 时	考核方式 Assessment	开课学 期	备注 Notes
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				Lecture		Online		Semester	
DR012003	地史学 Historical Geology	40	2.5	20	40		考试 Exam	4	
DR012037	构造地质学 Structural Geology	64	4	32	32		考试 Exam	6	
DR012062	结晶学与矿物学 Crystallography and Mineralogy	80	5	40	40		考试 Exam	5	
DR012071	岩石学 petrology	80	5	44	36		考试 Exam	6	
DR072064	博弈论与信息经济学 Game Theory and Information Economics	32	2	32			考试 Exam	4	
SR013012	地球化学(含有机地化) Geochemistry (Including Organic Geochemistry)	48	3	24	24		考试 Exam	5	
SR013018	勘查地球化学 Exploration Geochemistry	32	2	24	8		考试 Exam	5	
SR013075	遥感地质学 Remote Sensing Geology	48	3	24	24		考试 Exam	5	
SR013127	Mineral systems and exploration Mineral systems and exploration	32	2				考查 Term Paper	6	
SR014055	采矿与选矿概论 Introduction to Mining and Mineral Processing	16	1	16			考试 Exam	7	
SR014056	固体矿产勘查规范 Solid Mineral Exploration Standards	16	1	16			考查 Term Paper	6	
SR072176	矿业公司治理 Mineral Corporate Governance	16	1				考查 Term Paper	6	
SR073069	能源经济学 Energy Economics	32	2	32			考试 Exam	5	
SR073189	经济史 Economic History	32	2				考试 Exam	5	
SR073195	区域经济学	32	2				考试	6	

	Regional Economics						Exam		
SR103050	勘查地球物理方法及应用 Geophysical Prospecting Method and Its Application	32	2	16	16		考试 Exam	5	
SS014104	深时大数据与地球演化 Deep-time Big-data and Earth's Evolution	32	2				考查 Term Paper	7	
SS014122	矿床统计预测 Statistical Prediction of Mineral Deposit	32	2				考试 Exam	7	
SS014128	成矿规律与成矿预测 Metallogenic prediction and metallogenic regularity	32	2				考试 Exam	7	
SS072659	金融大数据与机器学习 Financial Big Data and Machine Learning	32	2				考查 Term Paper	4	
SS072661	矿业投融资 Mining Investment and Financing	32	2				考试 Exam	4	
SS073204	产业经济学 Industrial Economics	32	2				考试 Exam	5	
SS073655	国际矿业金融管理 International Mining Finance Management	32	2				考试 Exam	5	
SS073670	碳交易与碳金融 Carbon Trading and Carbon Finance	16	1				考查 Term Paper	7	
总计 Total		240	15	320	220				

6、课程实践(Course Practice)：18周+84学时(18 weeks and 84 Hours)，20学分(20 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR011044	北戴河地质认识实习	2周	2		2		考查	1夏	

	Geological Survey Field Trip in Beidaihe						Term Paper		
PR013058	矿产勘查学课程设计 Practice Course of Minerals Prospecting and Exploration	2周	2		2		考查 Term Paper	6	
PR072689	平泉地质教学实习 Geological Survey Field Trip in Pingquan	4	4				考查 Term Paper	2夏	
PR072694	证券投资实务 Securities Investment Practice	24	1				考试 Exam	4	
PR073687	计量经济学实验 Econometric Experiment	24	1				考试 Exam	5	
PR074683	毕业论文(经济学+资源勘查工程) Graduation Thesis	12周	6				考查 Term Paper	8	
PR181010	思想政治社会实践 Political Social Practice	32	2		32		考查 Term Paper	1夏	
PR311602	军事技能训练 Military Training	2周	2				考查 Term Paper	1	
总计 Total		18周 +84学时	20		36				

7、课程实践（可选）(Course Practice)：4周+学时(4 weeks and Hours)，4学分(4 Credits) 2门选1门

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR013060	矿山基地资源勘查工程综合训练 Comprehensive Training on Resource Exploration Engineering in Mine Base	2周	2		2		考查 Term Paper	3夏	
PR073126	专业实习 Professional Practice	2周	2		6		考查 Term Paper	3夏	
总计		4周+	4		8				

Total		学时							
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8、课外实践（Extracurricular Practice）：6学分（6 Credits）

包括主题教育活动、社会实践、志愿服务、勤工助学、学科竞赛、文体活动、创新创业活动、劳动实践等，其学分的认定按照教务处相关规定执行。

Extracurricular practice include Theme Education, Social Practice, Volunteer Service, Work-study Program, Discipline Competition, Cultural and Sports Activities, Innovative and Entrepreneurial Activities, Labor Practice and so on. The recognition of the credits for extracurricular practice shall be implemented according to the regulations of Academic Affairs Office.

数字经济专业培养方案

Undergraduate Program in Digital Economy

一、专业简介 (Major Introduction)

中国地质大学（北京）数字经济专业属于经济学前沿交叉学科，依托学校地质资源与环境领域的办学特色与学科优势，以数字技术为核心支撑，融合大数据分析、数据治理等前沿技术手段，聚焦资源环境数字经济、能源数字化转型、低碳数字治理、矿产资源数据决策等特色研究方向。本专业立足经济管理学院能源经济、矿产品国际贸易、资源产业经济等传统优势学科底蕴，深度推进数字经济与资源能源领域跨界融合，构建起以资源能源为应用场景、数字技术为核心支撑、行业实际需求为培养导向的特色育人模式，着力培育兼具数字素养、经济素养与综合管理能力的复合型创新人才，助力数字中国建设与资源环境数字化发展战略落地实施。

The Digital Economy program at China University of Geosciences (Beijing) is an interdisciplinary cutting-edge discipline in the field of economics. Relying on the university's distinctive educational features and disciplinary strengths in geological resources and the environment, it takes digital technologies as the core support and integrates cutting-edge technical means including big data analysis and data governance. The program focuses on distinctive research directions such as the digital economy of resources and the environment, digital transformation of the energy sector, low-carbon digital governance, and data-driven decision-making for mineral resources. Rooted in the traditional disciplinary advantages of the School of Economics and Management, including energy economics, international trade of mineral products and resource industrial economics, this major further promotes the in-depth integration of the digital economy with the resources and energy sectors. It has established a distinctive talent training model featuring resources and energy as application scenarios, digital technologies as core pillars, and industrial practical demands as the training orientation. The program strives to cultivate interdisciplinary innovative talents with digital literacy, economic attainment and comprehensive management capabilities, and supports the implementation of the Digital China initiative and the digital development strategy for resources and the environment.

二、专业培养目标 (Academic Objectives)

本专业立足国家重大战略需求，紧扣数字经济时代对复合型人才的培养要求，依托经济学、大数据与人工智能多学科交叉融合的办学优势，旨在培养高素质国际化拔尖创新人才。专业注重夯实学生经济学、信息科学、统计与数据科学的扎实理论基础，锤炼综合外语素养与全球国际视野，引导学生熟练掌握大数据等现代数字技术、明晰其在经济领域的应用场景与实践逻辑，助力学生深刻把握数字经济运行规律与全球发展趋势，具备从事经济运营、经营管理、学术研究及政策制定等工作的综合能力，同时持续塑造学生的创新精神、实践能力与社会责任感，全面适配新时代数字经济领域的多元发展需求。

Based on the country's major strategic needs and tailored to the demand for interdisciplinary talents in the digital economy era, this major leverages the interdisciplinary advantages of economics, big data and artificial intelligence to cultivate high-quality, international top-tier innovative talents. It focuses on consolidating students' solid theoretical foundation in economics, information science, statistics and data science, improving their comprehensive foreign language proficiency and global vision. The major enables students to proficiently master modern digital technologies such as big data and clarify their application scenarios and practical logic in the economic field. It also helps students deeply understand the operational laws and global development trends of the digital economy, equipping them with comprehensive competencies for economic operation, business management, academic research and policy formulation. Furthermore, it fosters students' innovative thinking, practical capabilities and sense of social responsibility, so as to fully meet the diverse development needs of the digital economy in the new era.

三、毕业要求（Academic Requirement）

学生经过本专业学习获得以下知识和能力：

- 1.思想政治与品德素养：具有高度的思想觉悟、社会责任感、职业道德以及良好的心理素质。首先要有高度的思想政治觉悟，服务国家发展战略；有高度的社会责任感，承担社会发展的使命和责任；有良好的职业道德，有创新创业的能力，并保持良好的身心素质，德智体美劳全面发展。
- 2.工具性知识：能够熟练使用英语进行学术研究和日常工作的能力，具备跨文化沟通能力；掌握前沿的学术研究工具以及数据分析方法，具有进行科研实践的知识基础。
- 3.数字经济专业知识：具有扎实的专业知识基础、掌握经济学的基本理论知识和分析方法，熟悉国内外数字经济的实践改革与发展趋势。
- 4.其他相关领域知识：广泛的交叉学科知识储备，掌握管理学、计算机科学（大数据分析技术）、金融科技等多个交叉学科的知识。
- 5.实践创新能力：掌握数字经济基本理论与运行规律，具备管理运营数据分析与决策能力，开展科学研究、培养创新思维与投入实践应用的能力。
- 6.数字化运营能力：参与数字化企业运营管理与规划实践，掌握在产业数字化过程中综合性问题的发现、分析、设计、评价和改善能力，具有适应数字社会发展的意识、知识和能力。
- 7.国际视野：了解数字经济发展的国内外动态，积极参与国际交流，利用数字技术和前沿理论来分析解决问题。

Through the study of this program, students will acquire the following knowledge and abilities:

1. Ideological, Political and Moral Literacy

Possess a high level of ideological awareness, a strong sense of social responsibility, professional ethics, and sound psychological resilience. First and foremost, students should have a high degree of ideological and political consciousness to serve the national development strategies; they should bear a strong sense of social responsibility to undertake the missions and obligations of social development; they should uphold good professional

ethics, be equipped with the capability for innovation and entrepreneurship, maintain sound physical and mental health, and achieve an all-round development of morality, intellect, physical fitness, aesthetics and labor skills.

2. Instrumental Knowledge

Possess the ability to proficiently use English for academic research and daily work, as well as cross-cultural communication skills; master cutting-edge academic research tools and data analysis methods, and have a solid knowledge foundation for conducting scientific research practice.

3. Specialized Knowledge in Digital Economy

Have a solid grounding in specialized knowledge, master the basic theories and analytical methods of economics, and be familiar with the practical reforms and development trends of the digital economy both at home and abroad.

4. Knowledge of Other Relevant Fields

Have a broad reserve of interdisciplinary knowledge, and grasp the essentials of multiple interdisciplinary subjects including management, computer science (big data analysis technology), and financial technology.

5. Practical and Innovative Ability

Master the basic theories and operational laws of the digital economy; possess the capabilities of data analysis and decision-making for management and operation; and develop the competence to conduct scientific research, cultivate innovative thinking, and engage in practical application.

6. Digital Operation Capability

Participate in the practice of operation management and planning of digital enterprises; master the ability to identify, analyze, design, evaluate and improve comprehensive problems in the process of industrial digitalization; and foster the awareness, knowledge and capability to adapt to the development of a digital society.

7. International Perspective

Understand the domestic and international developments in the digital economy; actively engage in international exchanges; and use digital technologies and cutting-edge theories to analyze and solve problems.

四、主干学科（Main disciplines）

应用经济学

Applied Economics

五、学制与学位（Length of Schooling and Degree）

学制四年。学生修满所规定的最低毕业学分，达到培养目标规定的各项要求后，授予经济学学士学位。

The standard duration of study is four years. Students who complete the prescribed minimum number of credits and satisfy all graduation requirements shall be awarded the degree of Bachelor of Economics.

六、核心课程（Core Courses）

经济学原理、习近平经济思想概论、微观经济学、宏观经济学、政治经济学、数字经济概论、计量经济学、数据库原理及设计、Python程序设计、区块链原理及应用、平台经济学、数字贸易等。

Principles of Economics, Introduction to Xi Jinping's Economic Thought, Microeconomics, Macroeconomics, Political Economy, Introduction to Digital Economy, Econometrics, Principles and Design of Database, Python Programming, Principles and Applications of Blockchain, Platform Economics, Digital Trade, etc.

七、最低毕业总学分要求及学分分配 (Minimum Required Credits and Distribution)

课程模块 Course Module	课程类别 Course Classification	学时数 Hours	学分 Credits	学 期Semester											
				1	2	1夏	3	4	2夏	5	6	3夏	7	8	
通识教育 Liberal Education	通识教育必修课程 Required Courses of General Education	682	38	13.25	10.25		4.25	4.25		3.25	1.25	1	0.25	0.25	
	通识教育选修课程 Selective Courses of General Education	160	10												
专业教育 Professional Education	学科基础课程 Disciplinary Fundamental Courses	584	36.5	11	11		8.5	6							
	专业核心课程 Specialized Core Courses	448	28				15	11		2					
	专业拓展课程 Specialized Development Courses	128	8				4	7		8	2				
实践教育 Practical Education	课程实践 Course Practice	11周+68学时	20	2		2	1	1	3	1		4		6	
	课外实践 Extracurricular Practice	96	6												
必修课总学分 Required Course Credits				122.5											
选修课总学分 Elective Course Credits				24											
最低毕业总学分 Total Credits				146.5											

八、课程设置 (Curriculum)

1、通识教育必修课程(Required Courses of General Education)：682学时(682 Hours)，38学分(38 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
GR041011	人工智能概论 Introduction of Artificial Intelligence	32	2	16	16		考试 Exam	1	
GR081067	大学英语素质拓展课 Competence-oriented Education for College English	32	2				考试 Exam	2	
GR081071	大学英语(1) College English(1)	64	4	64			考试 Exam	1	
GR081072	大学英语(2) College English(2)	32	2				考试 Exam	2	
GR141005	体育(1)(系列课程) Physical Education(1)	32	1				考试 Exam	1	
GR141006	体育(2)(系列课程) Physical Education(2)	32	1				考试 Exam	2	
GR142007	体育(3)(系列课程) Physical Education(3)	32	1				考试 Exam	3	
GR142008	体育(4)(系列课程) Physical Education(4)	32	1				考试 Exam	4	
GR181008	中国近现代史纲要 Essentials of Modern Chinese History	48	3	48			考试 Exam	2	
GR181009	思想道德与法治 Ideological morality and rule of law	48	3				考试 Exam	1	
GR181013	形势与政策(1) Situation and Policy Education(1)	4	0.25	4			考查 Term Paper	1	
GR181014	形势与政策(2)	4	0.25				考查	2	

	Situation and Policy(2)						Term Paper		
GR181015	形势与政策(3) Situation and Policy(3)	4	0.25				考查 Term Paper	3	
GR181016	形势与政策(4) Situation and Policy(4)	4	0.25				考查 Term Paper	4	
GR181017	形势与政策(5) Situation and Policy(5)	4	0.25				考查 Term Paper	5	
GR181018	形势与政策(6) Situation and Policy(6)	4	0.25				考查 Term Paper	6	
GR181019	形势与政策(7) Situation and Policy(7)	4	0.25				考查 Term Paper	7	
GR181020	形势与政策(8) Situation and Policy(8)	4	0.25				考查 Term Paper	8	
GR182014	马克思主义基本原理 The Fundamental Principles of Marxism	48	3				考试 Exam	3	
GR182022	习近平新时代中国特色社会主义思想概论 An Introduction to Xi Jinping Thought on Socialism with Chinese	48	3				考试 Exam	5	
GR182024	毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thoughts and Theoretical System of the Chinese Characteristic Socialism	32	2	32			考试 Exam	4	
GR301004	大学生职业生涯规划与就业指导(1) Career Planning and Employment Guidance for University Students(1)	20	1	16	4		考试 Exam	2	
GR301005	大学生心理素质教育(1) Mental Health(1)	16	1	16			考查 Term Paper	1	
GR301024	劳动教育与双创实践(1) Labor Education and Innovation and Entrepreneurship Practice(1)	16	1	16			考查 Term Paper	2	

GR303005	大学生职业生涯规划与就业指导(2) Career Planning and Employment Guidance for University Students(2)	18	1	12	6		考试 Exam	6	
GR303006	大学生心理素质教育(2) Mental Health(2)	16	1	16			考查 Term Paper	4	
GR303025	劳动教育与双创实践(2) Labor Education and Innovation and Entrepreneurship Practice(2)	16	1		16		考查 Term Paper	3夏	
GR311601	军事理论 Military Theory	36	2	36			考试 Exam	1	
总计 Total		682	38	276	42				

2、通识教育选修 (Selective Courses of General Education) : 160学时 (160 Hours), 10学分 (10 Credits)

序号 No.	课程类别 Courses Classification	课程名称 Courses Name	学分 Credits	考核方式 Assessment	开课学期 Semester	备注 Notes
1	人文社科类 (含在线课程) Humanities and Social Sciences Courses (Inc. Online Courses)	见附件1	6	考查 Term paper	2-8	5个类别中选修6个学分, 其中国家安全教育1学分、新生研讨 课1学分均为必选, 其他合计4学分。
2	自然科学类 (含在线课程) Natural Science Courses (Inc. Online Courses)	见附件2		考查 Term paper	2-8	
3	生态文明类 (自然文化、碳中和) Ecological Civilization Courses (Natural Culture、Carbon-Neutral)	见附件3		考查 Term paper	2-8	

4	体育与健康类 Sports and Health Courses	见附件4		考查 Term paper	2-8	
5	新生研讨课程 Freshman Seminar	见附件5		考查 Term paper	1-2	
6	创新创业教育类（含在线课程） Innovation and Entrepreneurship Courses (Inc. Online Courses)	见附件6	2	考查 Term paper	2-8	
7	审美与艺术类 Aesthetics and Art Courses	见附件7	2	考查 Term paper	2-8	
总计 Total			10			

3、学科基础课程(Disciplinary Fundamental Courses)：584学时(584 Hours)，36.5学分(36.5 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
DR071057	经济学原理 Principles of Economics	48	3	48			考试 Exam	2	
DR071201	信息检索与数据分析 Information Retrieval & Data Analysis	32	2	16	16		考试 Exam	2	
DR071602	习近平经济思想概论 Introduction to Xi Jinping Economic Thought	32	2	32			未知	1	
DR071603	管理学 Management	32	2				考试 Exam	1	

DR071606	数字经济专业导论 Introduction to Digital Economy	16	1				考查 Term Paper	1	
DR072058	统计学 A Statistics A	48	3	36	12		考试 Exam	3	
DR072200	微观经济学 Intermediate Microeconomics	48	3	48			考试 Exam	3	
DR072201	宏观经济学 Intermediate Macroeconomics	48	3	48			考试 Exam	4	
DR191001	高等数学A(1) Higher Mathematics A(1)	96	6	96			考试 Exam	1	
DR191002	高等数学A(2) Higher Mathematics A(2)	96	6	96			考试 Exam	2	
DR192006	概率论与数理统计 Probability and Statistics	48	3	48			考试 Exam	4	
DR192605	线性代数A Linear Algebra A	40	2.5	40			考试 Exam	3	
总计 Total		584	36.5	508	28				

4、专业核心课程(Specialized Core Courses)：448学时(448 Hours)，28学分(28 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学 时 Lecture	实验学时 Experiment	线上学 时 Online	考核方式 Assessment	开课学 期 Semester	备注 Notes
DR072064	博弈论与信息经济学 Game Theory and Information Economics	32	2	32			考试 Exam	4	
DR072111	数据库原理及设计 Principle of Database Systems	48	3	32	16		考试 Exam	3	
DR072229	金融学 B Finance B	32	2				考试 Exam	3	
DR073063	计量经济学 Econometrics	48	3	40	8		考试 Exam	4	

SR072177	矿产品国际贸易 International Trade o Mineral Products	32	2				考试 Exam	3	
SR072618	财政学 Public Finance	32	2				考试 Exam	4	
SR072631	平台经济学 Platform Economics	32	2				考试 Exam	4	
SR072640	数字经济概论 Introduction to the Digital Economy	32	2				考试 Exam	3	
SR072641	数字经济专业英语 English for Digital Economy	32	2				考试 Exam	3	
SR072642	数字贸易 Digital Trade	32	2				考试 Exam	4	
SR072647	政治经济学 Political Economics	32	2				考试 Exam	3	
SR073635	区块链原理与应用 Principles and Applications of Blockchain	32	2				考试 Exam	5	
SS072225	Python程序设计 Python Program Design	32	2				考试 Exam	3	
总计 Total		448	28	104	24				

5、专业拓展课程(Specialized Development Courses)：128学时(128 Hours)，8学分(8 Credits) 至少选修8学分

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
SR072619	大数据处理与文本分析 Big Data Processing and Text Analysis	32	2				考试 Exam	3	
SR073069	能源经济学 Energy Economics	32	2	32			考试 Exam	5	

SR073195	区域经济学 Regional Economics	32	2				考试 Exam	6	
SR073221	数据挖掘与商务智能A Data Mining and Business Intelligence A	48	3				考试 Exam	4	
SS072600	数字法学 Digital Law	32	2	32			考查 Term Paper	3	
SS072659	金融大数据与机器学习 Financial Big Data and Machine Learning	32	2				考查 Term Paper	4	
SS072661	矿业投融资 Mining Investment and Financing	32	2				考试 Exam	4	
SS073204	产业经济学 Industrial Economics	32	2				考试 Exam	5	
SS073652	大数据安全与治理 Big Data Security and Governance	32	2				考试 Exam	5	
SS073655	国际矿业金融管理 International Mining Finance Management	32	2				考试 Exam	5	
总计 Total		128	8	64					

6、课程实践 (Course Practice)：11周+68学时 (11 weeks and 68 Hours)，20学分 (20 Credits)

课程代码 Course Code	课程名称 Course Name	总学时 Hours	学分 Credits	讲课学时 Lecture	实验学时 Experiment	线上学时 Online	考核方式 Assessment	开课学期 Semester	备注 Notes
PR072120	教学实习 Teaching Practice	3周	3		3		考查 Term Paper	2夏	
PR072200	Python数据采集和分析实训 Data collection and analysis by Python	1周	1				考查 Term Paper	3	

PR072263	自然资源大数据挖掘与可视化实训 Nature Resources Big Data Mining and Visualization	1周	1				未知	4	
PR073121	专业实习 Professional Practice	4周	4				考查 Term Paper	3夏	
PR073687	计量经济学实验 Econometric Experiment	24	1				考试 Exam	5	
PR074684	毕业论文(数字经济) Graduation Thesis	12	6				考查 Term Paper	8	
PR181010	思想政治社会实践 Political Social Practice	32	2		32		考查 Term Paper	1夏	
PR311602	军事技能训练 Military Training	2周	2				考查 Term Paper	1	
总计 Total		11周 +68学 时	20		35				

7、课外实践 (Extracurricular Practice) : 6学分 (6 Credits)

包括主题教育活动、社会实践、志愿服务、勤工助学、学科竞赛、文体活动、创新创业活动、劳动实践等，其学分的认定按照教务处相关规定执行。

Extracurricular practice include Theme Education, Social Practice, Volunteer Service, Work-study Program, Discipline Competition, Cultural and Sports Activities, Innovative and Entrepreneurial Activities, Labor Practice and so on. The recognition of the credits for extracurricular practice shall be implemented according to the regulations of Academic Affairs Office.